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Northern California's Computer Magazine
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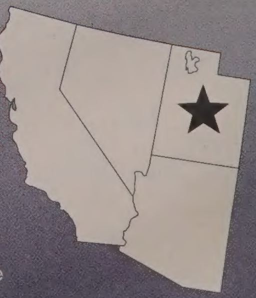

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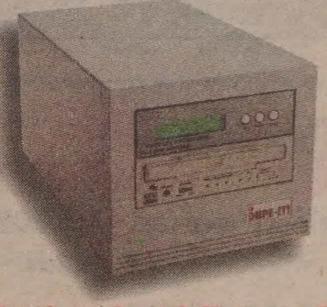

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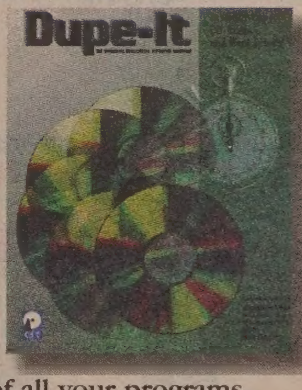

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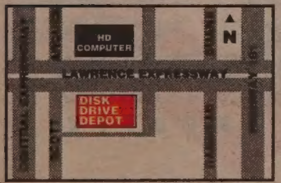

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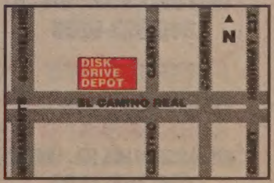

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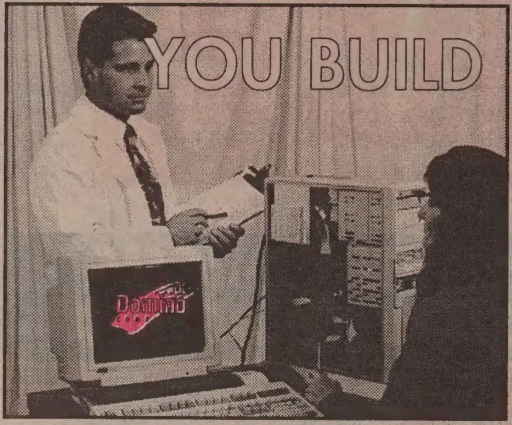

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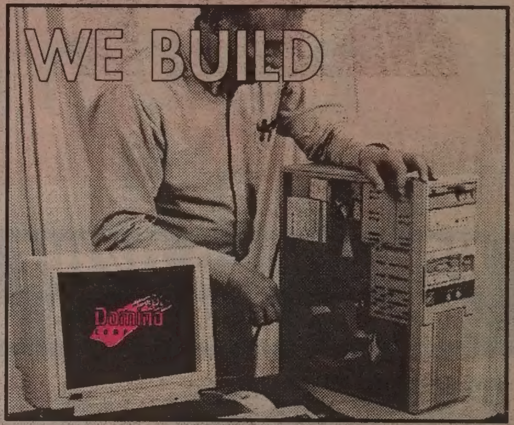

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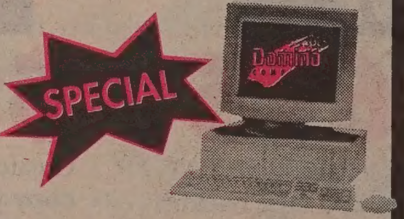

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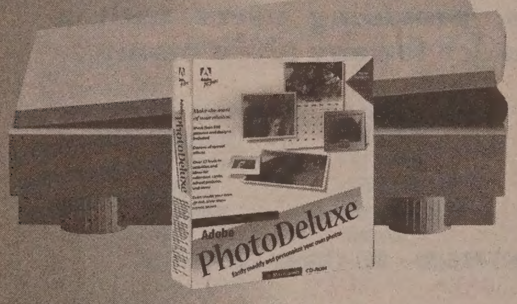

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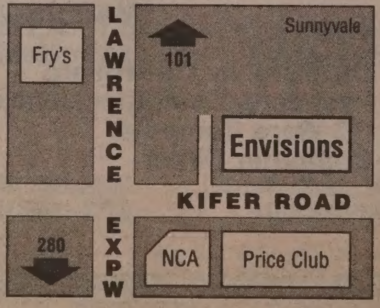

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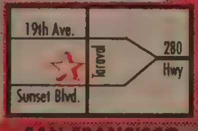

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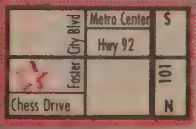

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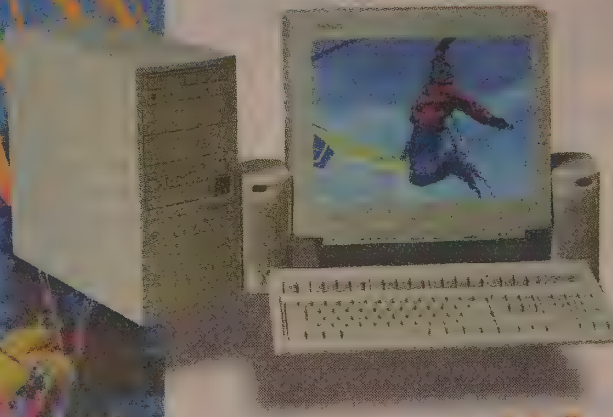

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THE FOURTH ANNUAL
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HOLIDAY GIFT GUIDE

Fourth Annual Holiday Gift Guide

Once again, it's holiday time—time to start looking for gifts for the computer users on your list, not to mention the goodies you want to start dropping hints about on your own behalf.

In that spirit, we bring you a number of features on the less technical, more human side, from the cover interview with Carlos Santana on why he's venturing into the CD-ROM world to Shareware Games and Cats On The Net—not to mention advice on avoiding repetitive stress injuries and a look at online fundraising. We hope you find the stories entertaining and informative.

Starting on page 132, we also spotlight a variety of new and interesting products, and we hope this provides you with some useful ideas.
Happy Holidays from all of us at MicroTimes!
—eds.

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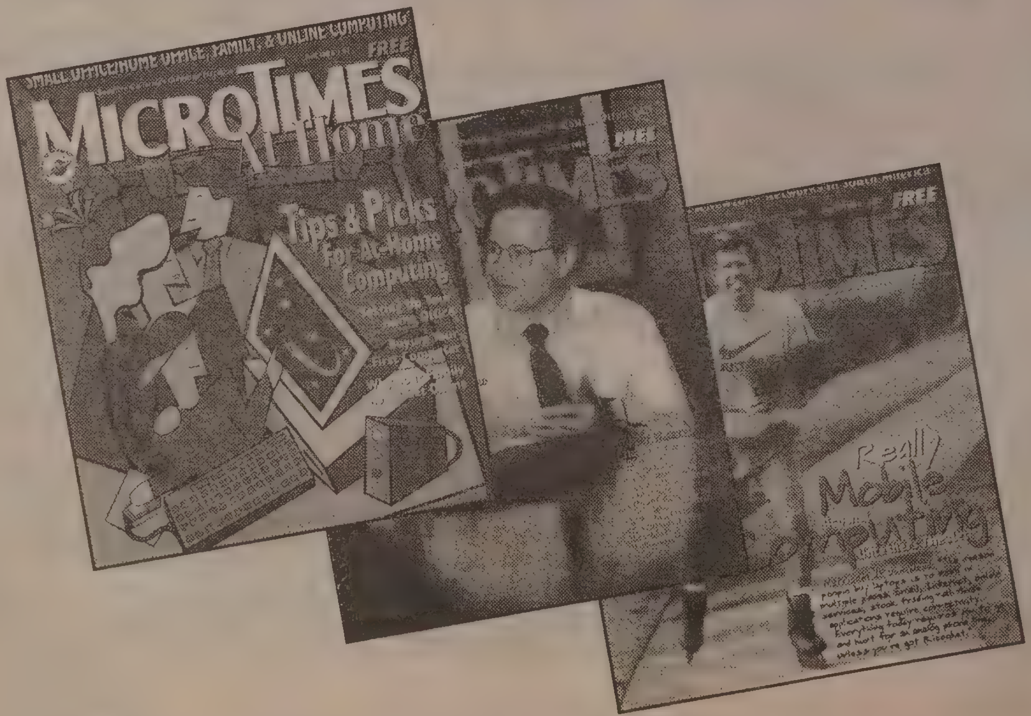
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Contributors

Birrell Walsh (*birrell@well.com*) is a contributing editor for *MicroTimes* and a freelance writer for *BYTE* and other magazines.

Anna Couey (*couey@well.com*) is a writer, artist, and consultant specializing in cultural and community-based telecommunications.

Roger Karraker (*roger@river.org*) is a journalist and an instructor at Santa Rosa Junior College.

David Noack and **Al Miller** are new contributors who submitted stories to us via email. We encourage you to do likewise!

Kevin Savetz (*savetz@northcoast.com*) is author of *MBONE: Multicasting Tomorrow's Internet*, published by IDG books and waiting patiently on a bookshelf near you.

Lenny Bailes (*jroe@well.com*) is a San Francisco-based teacher and consultant and is a co-author of the *BYTE Guide to Optimizing Windows 95*.

Jonathan E. has worked with desktop multimedia since 1988. His USPS mailing address is c/o SoundSwell, 54 29th St., Richmond, CA 94804. His email address is *jeve@well.com* .

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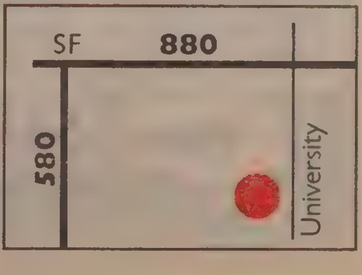

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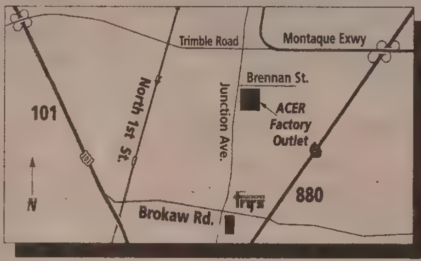

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EDITOR-IN-CHIEF
Dennis Erokan

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EDITORIAL 510-934-3700
email: Microx@well.com
EDITOR Mary Eisenhart
ASSOCIATE EDITOR Michael Robin
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CONTRIBUTING WRITERS Nick Anis, Laura Bell, Mikael Blaisdell, Cynthia Dyer-Bennett, Anna Couey, Woody Liswood, Judy Malloy, Pamela Mason, Michelle Rafter, Kevin Savetz, John Wolcott
CONTRIBUTING PHOTOGRAPHERS Tustin Ellison, Michael Jay, Anne Knudsen, Susana Millman, Paul Winternitz

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ACCOUNTING Jennifer Bertino, Vickie Liu, Kathie Markee, Brian Murray, Bonnie Peterson
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FOUNDERS
Dennis Erokan, Don Hamilton, Pat Hamilton

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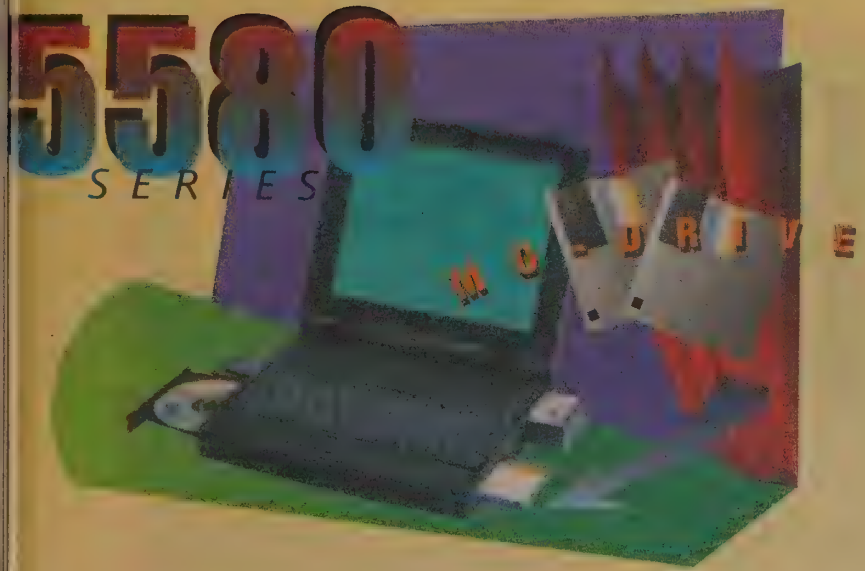

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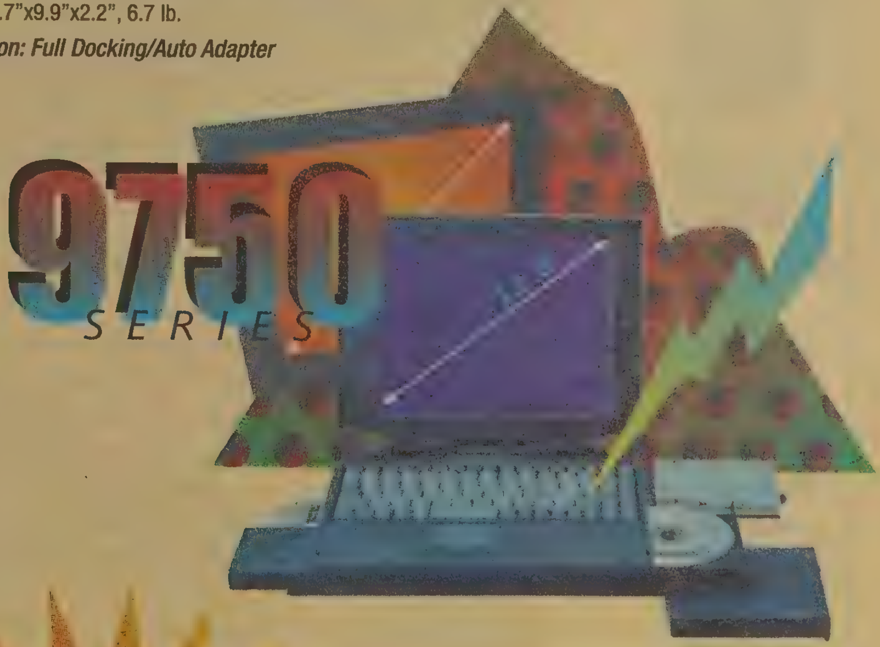

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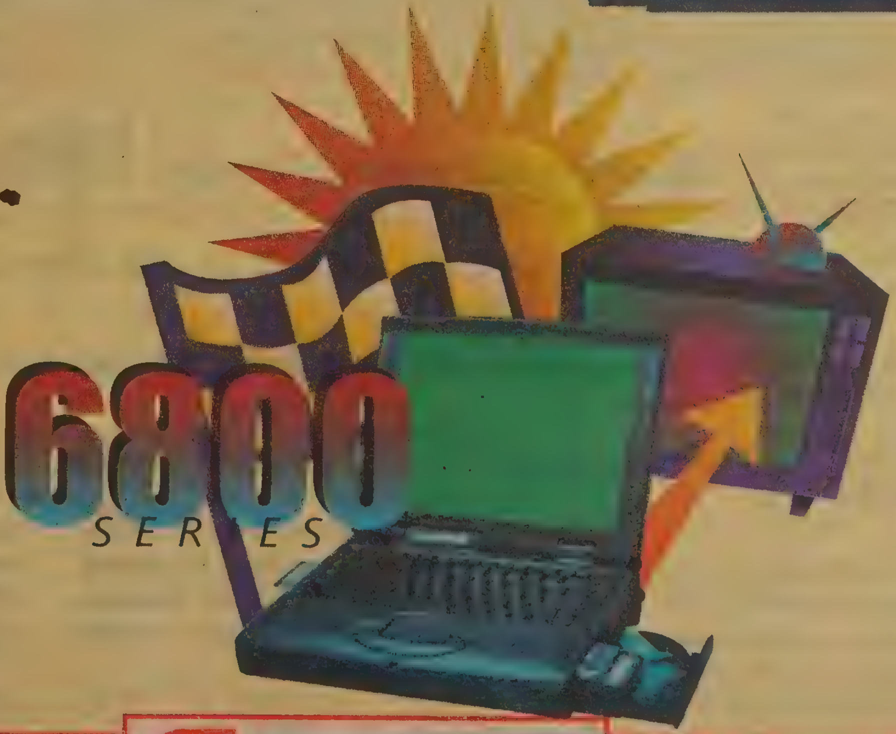

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(So)HoHoHo

Santa Runs A Small Office

By Birrell Walsh

Here it is a few shopping days before Christmas. Despite all resolutions last year, you have neglected your shopping. What are you going to get for all those people on your list? Come along, we'll see what the elves have.

Stitch Painter

I have the good fortune to have married a weaver. There is a song, much sung in Scotland, that everyone wears the work of the weaver. Computer graphics also "wear the work of the weavers": the first practical automated equipment was in seventeenth-century France, when Jacquard created looms driven by punched cards.

With my wife's craft and my own, I am glad to see software tools for textile designers. Stitch Painter from Cochenille Design Studios is one such tool, existing in both Macintosh and Windows versions.

This is a design tool. It allows the user to visualize knitted, embroidered or woven products in color and with texture. Stitch Painter invites you to color in a grid with your design. You can flip the designs horizontally and vertically, and paint on the gridded surface with complex brushes. I made a pattern that was twenty-five squares tall and twenty sideways, and used it as a brush to stamp the pattern all over the surface. The brushes can also be multicolored, so they leave polychrome traces on the design you are making.

Because Stitch Painter is designed for a variety of textile-workers, it lacks some of the amenities that each separate craft might want. It does not produce draw-downs, for instance—the information that weavers use to set up their looms.

GyroPoint has a secret, though. It flies. You can pick the mouse up and with a couple of clicks on the side button turn it into a midair pointing device.

Cochenille makes other tools for textile artists. They have a Garment Styler for clothing designers. They sell a specialized relational database called Craft Organizer that is tailored for textile craftspeople.

GyroPoint

There are some tools that just instantly lock up a niche. This mouse is for anyone who has to make big-screen presentations from a computer.

There you are, trying to be in command of a restless audience. You should be thinking about what you are saying. But you are instead wondering on what surface you can operate your mouse. The top of the projector? Your knee? Mr. Smithers' head?

Enter GyroPoint. It looks like a standard mouse when you use it on the desktop. You might be puzzled by the long cable on it, or by the two extra buttons on the sides of the mouse, but it is the same size and shape as many mice on the market. GyroPoint has a secret, though. It flies. You can pick the mouse up and with a couple of clicks on the side button turn it into a midair pointing device. The secret is a tiny gyroscope inside the mouse. It makes it possible for GyroPoint to know how you are moving it while it is in mid-air.

I just tried it on an application that is mouse-intensive. I was able to stand five feet away from the screen and control the cursor with almost no effort. A bit of practice would make it as easy to use as a table mouse.

This means that the person making a presentation with a computer projection screen need no longer find a flat surface and hunch over it. You can walk around, gesture, do anything within a reasonable distance of the com-

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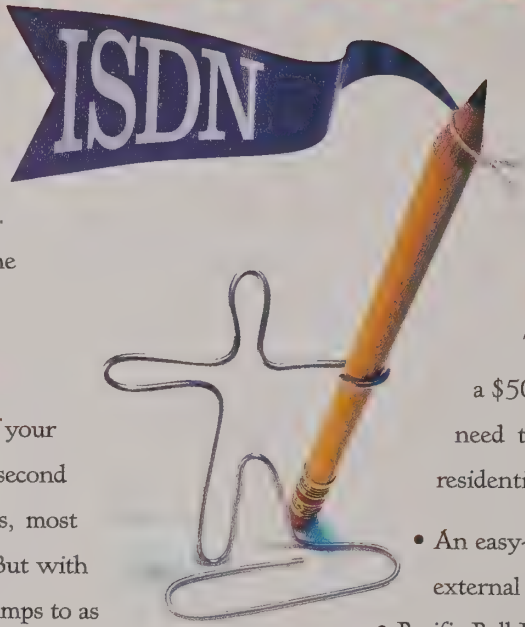

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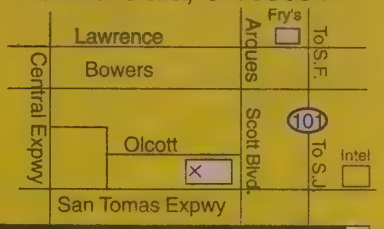

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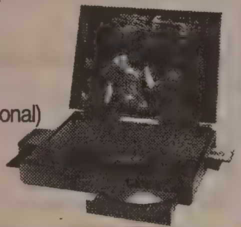

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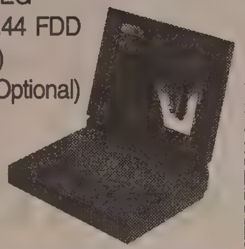

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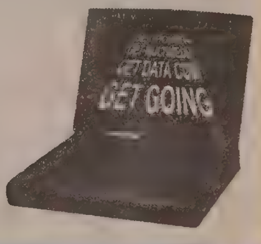

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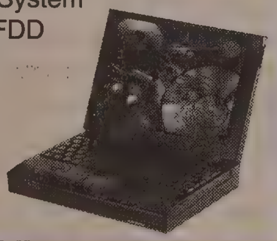

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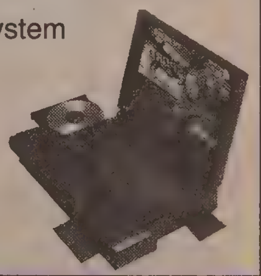

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puter, and still have the ability to point and click on the screen.

There are a number of little niceties to GyroPoint, too. The cursor does not have to follow your every move. You can click it into and out of mid-air mode. If the mouseball moves, it automatically returns to desktop mode. Left-handed people will appreciate that the mouse reverses handedness with a simple setting. And for those of us who are secret technophobes, there are no mouse drivers to install. The GyroPoint will use most standard drivers with no further modification. Unplug your normal mouse, replace it with its new airborne cousin, and you are ready to go.

For the truly mobile there is a cordless radio version, which takes batteries and works with no cable at all. I have not evaluated it; it claims a 75-foot working radius. That would make it possible to walk a whole auditorium during a presentation. But the seventy-dollar version with a cord will handle most situations, and will intrigue the gadgeteer or presenter on your list.

What, Me—Creative?

Have you ever wondered if you were a creative person? It may seem odd to have a test that measures creativity, but I have one sitting on my desk at this moment.

Imaginatively called "Creativity Test," it comes in Mac and Windows versions from Virtual Entertainment in Massaasachusetts. For a mere twenty dollars you can find out three things: Whether you are temperamentally creative, how you perceive yourself in terms of creativity, and how you respond to risk.

The test can be taken by one or many people, and of course it can be re-used by many different members of your family, group, or significant otherhood. The tests have some limitations, and you should be aware of them. All the questions are verbal, so they measure one's skill in responding to verbal questions before they measure one's actual creativity. They are all based on self-report, so they measure self-concept more deeply perhaps than they measure the fact of creativity. If you have a truly hidden creative streak that has never shown up, this test may also miss it.

Results are available both as descriptive statements and as a graph. In giving results graphically, they acknowledge those who think non-verbally. Sigh. Why is it that only the gamemakers seem to have grasped that many people really do think silently, with pictures? Einstein, for instance. But I digress.

It is a lot of fun to zip through the forty minutes or so of questions. They are of the type "I spot several different aspects of a problem right away." You are asked to rate the truth of these statements about you by moving a slider to the appropriate point between "Totally Disagree" and "Totally Agree." Since most of us like to talk and think about ourselves, this might be a pleasing gift for a variety of people.

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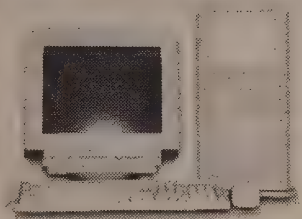

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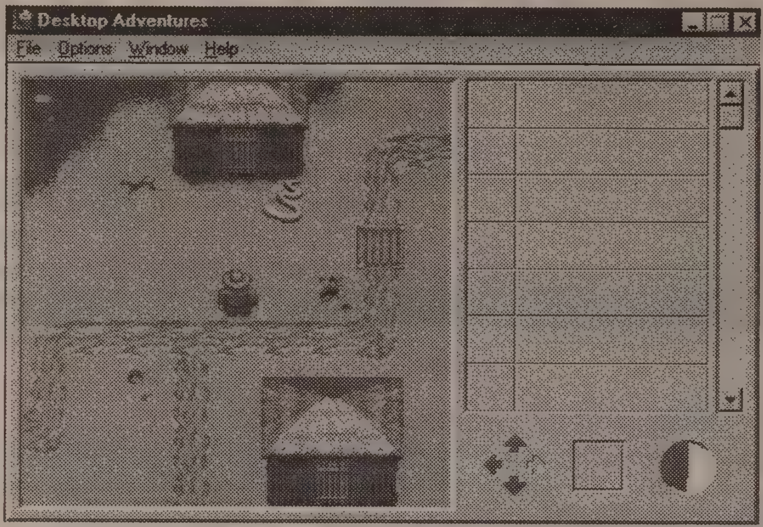
Indiana Jones Desktop Adventures

I think little games are just wonderful. These are not the great thumpers that take three years to play—these are the smaller time-wasters that sit on your desktop and soak up excess energy or ennui.

LucasArts has given us one such game. Called "Desktop Adventures of Indiana Jones," it comes on a single 3.5" disk and occupies only .75 of a meg on your hard disk. When you open it, you have an aerial view of a small village somewhere in the tropical Americas. Hey—there's Indy (I can tell by the hat)! Your mission is to pilot Indy around his environment to find his missing artifact, and drive off the bad guys and malevolent fauna at the same time. The games take less than an hour if you play them straight through, and they combiine a bit of arcade action with a lot of thinking. You can save games or you can generate new ones with the random-game generator.



Desktop Indy will not strain your mind, nor is it intended to improve you. It is the sort of game you can play while a long-winded client holds you on the phone. Hell—you could send it to the client as a Christmas present—it only costs fifteen dollars. It is available for Mac and Windows.

Lucas Archives Star Wars Collection

Little games are for little minds, you say? You want the real, rambunctious classic shoot-em-up games? Well, Lucas Arts also has something for you. They have repackaged their classic games about Star Wars into a single multidisk set. You can have them all for under fifty-five dollars.

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continued on page 252

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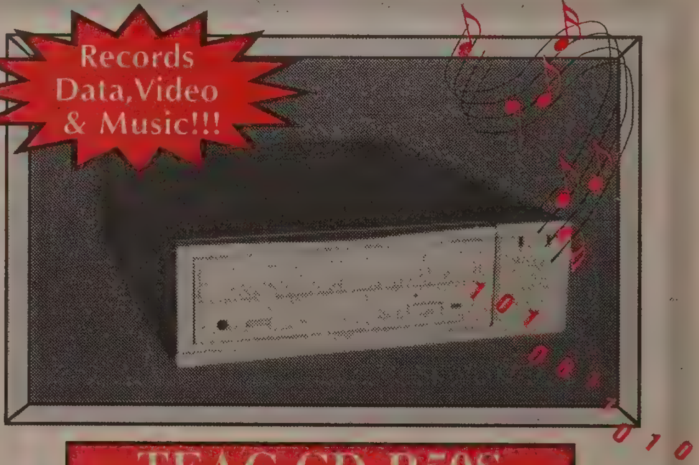

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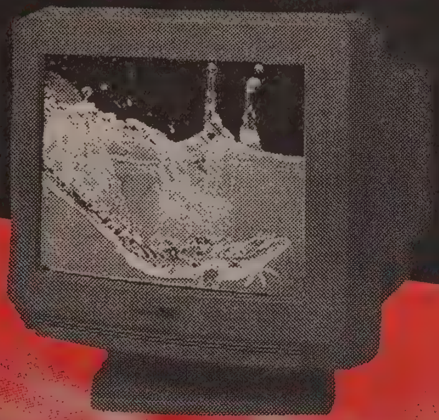

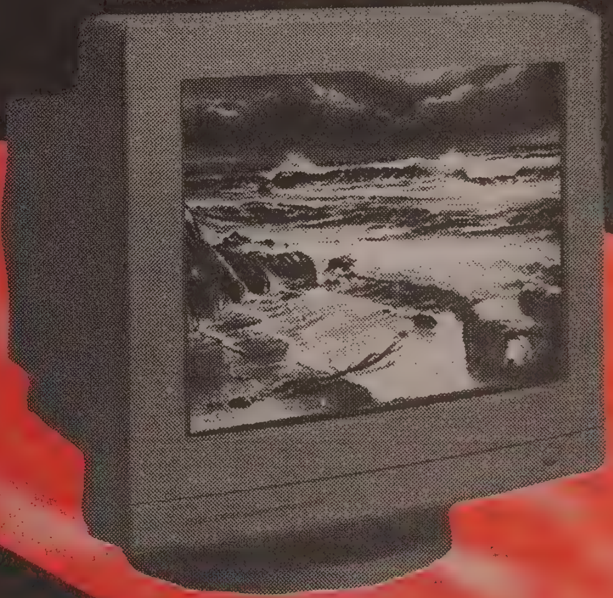

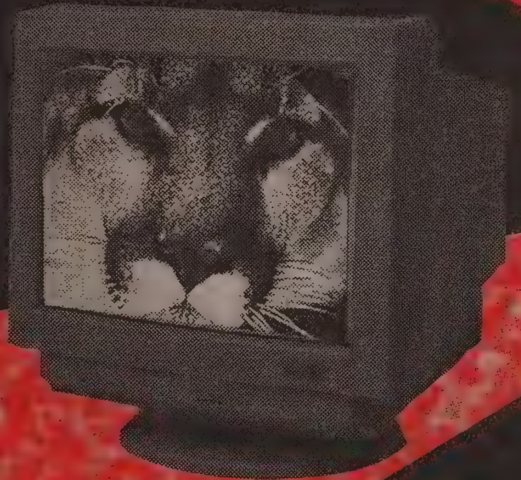

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Shareware '96 Roundup

The Best of Bargain Software

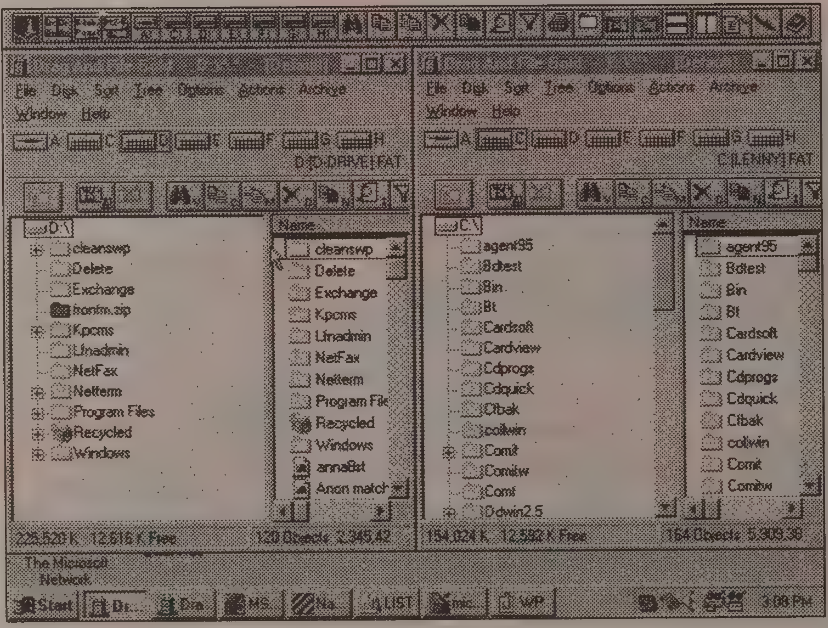
By Lenny Bailes

The PC shareware market is continuing to change. In the past, the principal vehicles for shareware distribution were dial-in bulletin boards and disk vendors who hawked and extolled various productivity applications and games at weekend swapmeets.

But now, many shareware products are too large to be contained on a single floppy disk, and the World Wide Web has largely supplanted the local BBS as a hunting ground and distribution center.

The basic policies governing shareware use are still pretty much the same. Shareware programs can be had for the cost of the diskettes or CD that contain them, or downloaded from FTP sites, Web pages and public bulletin board systems. You usually have a period of weeks or months to evaluate the software at your leisure. If you like what you see, a registration fee of less than $100 gets you full documentation, technical support and access to program enhancements.

The Association of Shareware Professionals is an organization that exists to monitor program quality, protecting both authors and consumers. Windows 95 has largely replaced DOS and Windows 3.x as the default platform for most PC users. Generally a 486 CPU, 5-10MB of free hard disk space, and VGA monitor are required to run the packages we're looking at this time around. For some of them, an 8-bit or 16-bit Soundblaster-compatible soundcard and/or 2X CD-ROM drive may also be required.



Clipmate 4.0

Thornsoft's ClipMate is a must-have Windows Clipboard enhancer, permitting you to capture, save and paste multiple clipboard objects, sort them by thumbnails, and "power-paste" a series of objects into any Windows or DOS application. You can use Clipmate to create libraries of your favorite clip art and set expiration dates which will purge old entries to make way for new ones. The "Auto Glue" feature is particularly useful for combining a series of text-clipboard entries that have been stored separately into a combined document. For instance, you can create a rough-and-ready address or memorandum file, cumulatively cutting information out of documents and storing it in a single clipboard file.

Another handy option allows you to quickly remove unwanted line breaks (carriage returns or line feeds) in your data. This is particulary useful for transferring text between applications or pasting it into an online Telnet or terminal application for conference posting.

Clipmate allows you to set up an unlimited number of collections of text and graphic images, bounded only by the available space on your hard disk. Individual selections can be printed or "power-pasted." Powerpaste allows you to choose a series of selections in a ClipMate collection and successively paste them into a single document by repeatedly hitting the paste button or menu option in the application.

The evaluation version of ClipMate is completely feature-enabled for thirty days. After that, you'll need to register to retain access to its advanced options. Thornsoft Development is a member of the Association of Shareware Professionals.

Drag And File Gold Desktop

We reviewed this convenient file management utility for Windows 95 in last year's shareware roundup, but feel that the latest version deserves another mention. In addition to providing a more complete file manager than Windows 95's native Explorer with integrated handling of ZIP and other compressed archives, this version of Drag and File Gold bundles flexible Task and Application Launch bars and a new, virtual screen utility to extend the size of your Windows 95 desktop.

The Launch Bar is an icon-strip across the top of the screen that lets you open the contents of any drive, view/copy/move/edit/delete/rename files, connect/disconnect a network drive, tile desktop windows, or launch applica-

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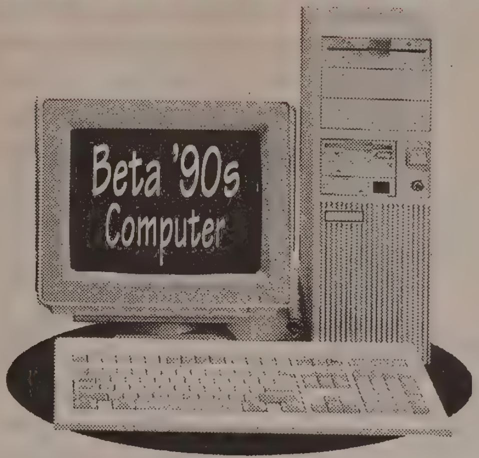

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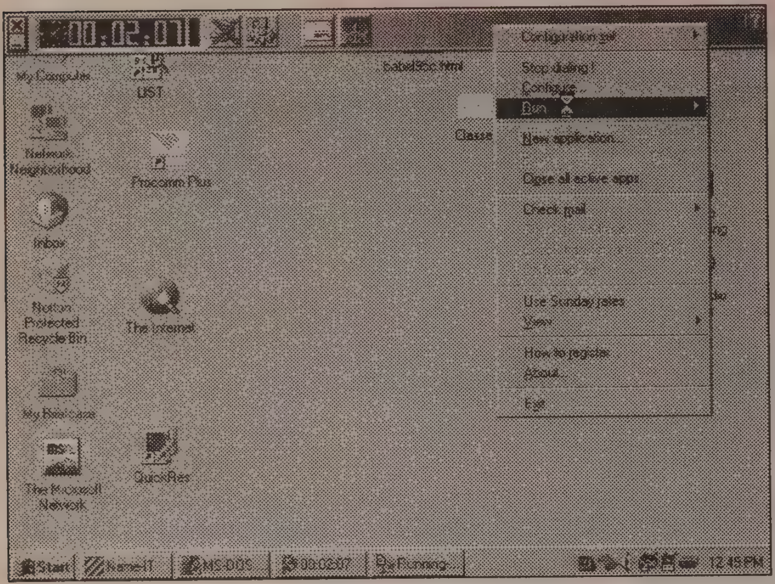

NetBar

tions of your choice. The Task Bar is a similar adjunct to the Windows 95 TaskBar at the bottom of the screen. It contains all the features of the Launch Bar and reserves a user-sizable area of the default Win95 Taskbar to drag-and-drop icons for the applications of your choice. Either icon-strip can also contain shortcuts to printers, Help files, FTP sites, or Web URL locations.

The Drag and File virtual screen utility allows you to establish up to ten full-screen Windows 95 desktops, each of which can contain separate open programs and file windows. Icons on the Launch Bar let you switch between desktops and move open windows from one to another.

The Drag and File File Manager can open multiple tree-based file/directory windows, allowing you to sort directory listings by file extension, display side-by-side listings for two drive partitions, customize confirmation preferences for COPY/MOVE/DELETE, perform file operations on a group of filtered items, or configure and edit application/file associations.

Drag and File includes an augmented toolbar and pulldown menu functions that hook into Windows 95's QuickView and Network Sharing features. It can tag/untag selected directories, print, launch programs, and find files. A companion program, Drag and Zip, turns the interface into a full-featured archive manager, allowing you to compress and decompress files on the fly, drag-and-drop files into and out of zipped archives, and convert zipped archives into self-executing files, all by right-clicking the mouse.

Drag and File Gold is authored by well-known Bay Area shareware programmer Dan Baumbach, who is also a past ombudsman of the Association of Shareware Professionals.

continued on page 33

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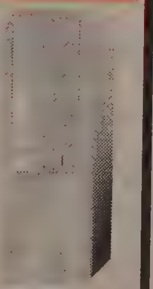

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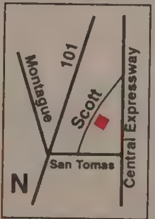

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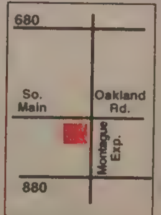

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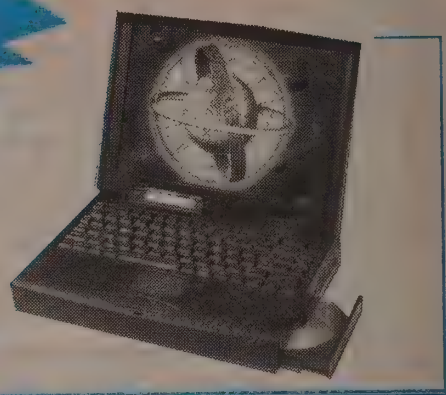

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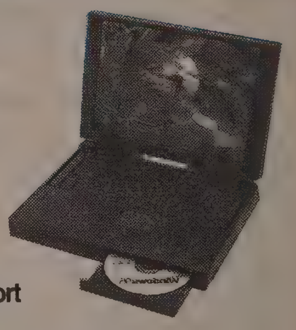

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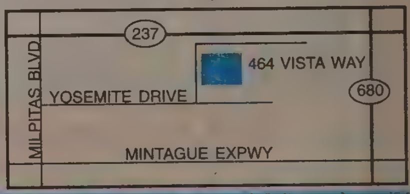

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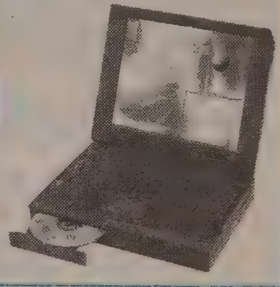

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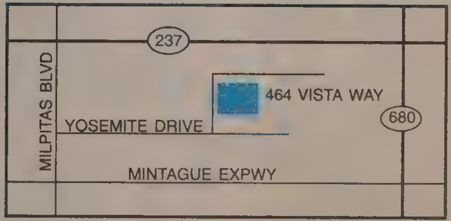

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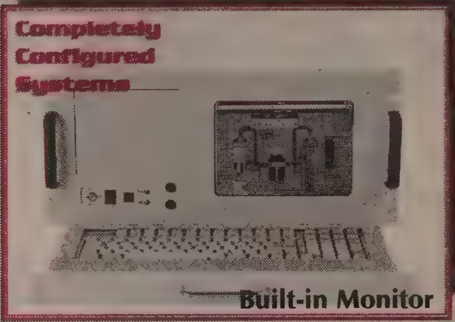
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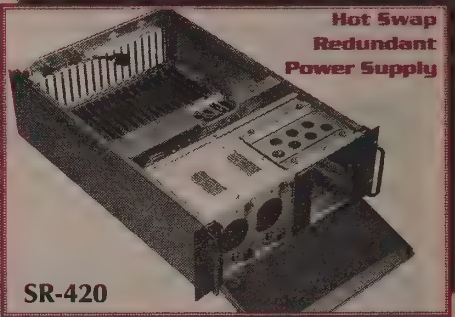
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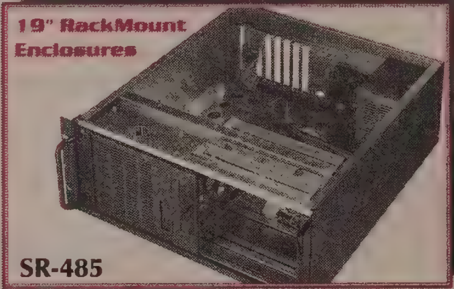
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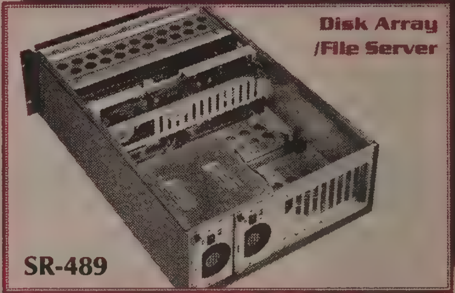
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Shareware '96 Roundup

continued from page 28

NetBar

NetBar 2.2 is a Windows 95 Internet dialing utility. It might prove to be a useful gift for Internet addicts who would like to track their monthly online bills and time spent surfing.

In addition to recording your online minutes and calculating a bill based on the data you enter, NetBar also allows you to automatically launch selected browsers, email utilities, etc., upon connection. The NetBar taskbar displays minutes online (for the current or cumulative sessions) and also lets you place icons shortcuts to any program on your hard disk. NetBar can be configured for use with multiple ISPs.

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WinFlash

WinFlash lets you create a set of multimedia flashcards for learning drills. You can set up question-and-answer cards that contain text, pictures, animations and sound files.

> **Shareware programs** can be had for the cost of the diskettes or CD that contain them, or downloaded from FTP sites, Web pages and public bulletin board systems.

Prebuilt learning modes let you construct cards in fill-in-the-blanks or question-and-answer pair types for auto-scored results, or build free-format pairs that are user-scored. The cards can be configured to display themselves for variable time durations and can also be run as a screen-saver. Individual cards and their embedded graphics can be printed for use away from the computer. A WYSIWYG interface simplifies the construction of a flashcard deck. Browsers are included for graphics, sound, and video animations.

Roxie's Math Fish

Roxie's Math Fish is an animated, talking card game designed for preschoolers and grade school children. It teaches arithmetic through an animated contest of go-fish.

The player and Roxie the cat are each dealt a set of cards that contain numerical sums, subtractions, multiplications or divisions. Roxie asks whether you have any cards that match a specific number, and you have to be able to do the arithmetic operation to answer yes, or to tell Roxie to go fish. When it's your turn, you point to your own cards, and Roxie tells you the sum, either producing a card or telling you to go fish.

The object is to accumulate the greatest number of matching numerical pairs and go out. The game can be set for eight levels of difficulty (the shareware version has one level). As a bonus, you can distract Roxie by clicking on a window that lets a bird fly into the room. A companion program, Roxie's Reading Fish, plays a similar card game with words instead of numbers.

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continued on page 256

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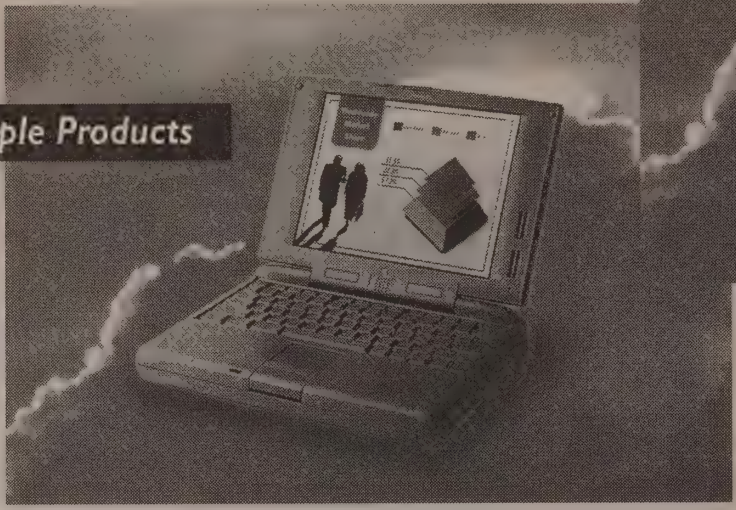

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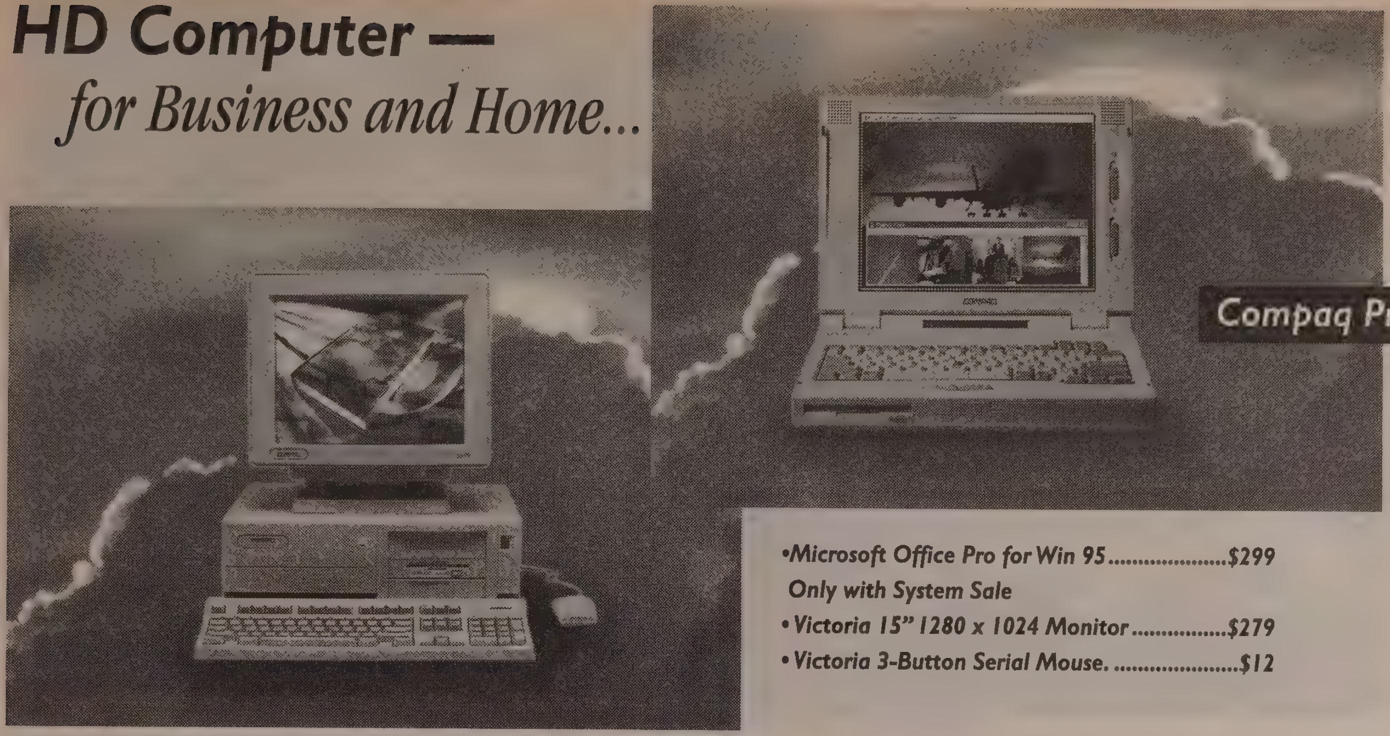

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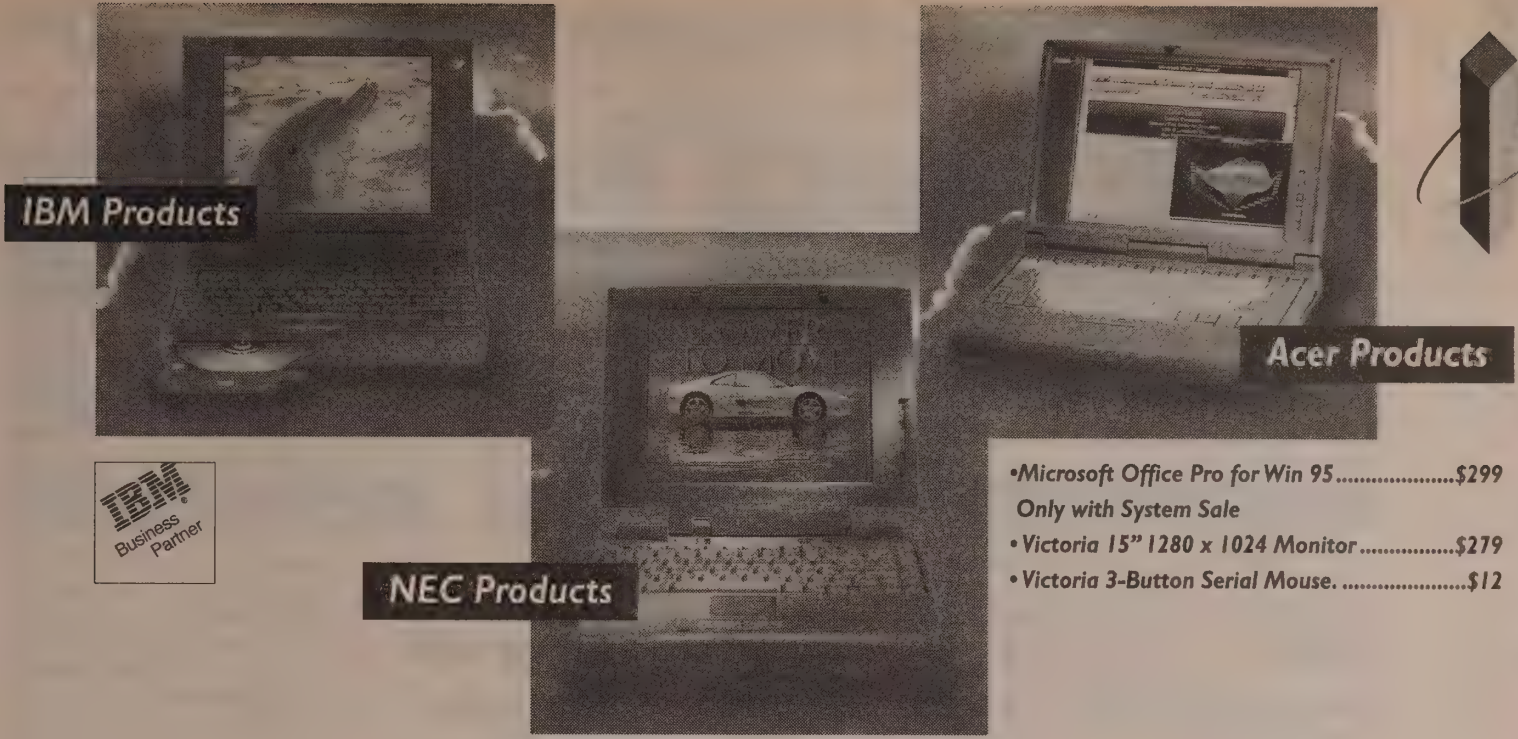

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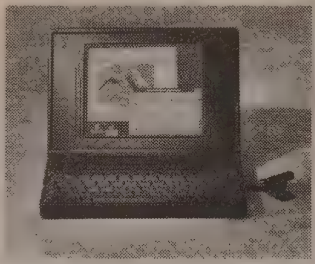

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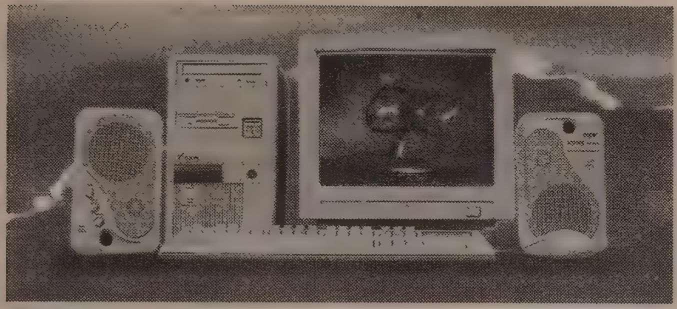
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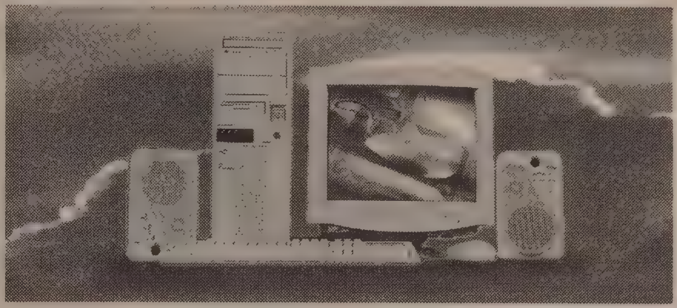
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- **Adaptec 2940 PCI Wide SCSI Controller**
- **HP C1536 4.0GB SCSI Tape Drive INT**
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- Full Tower ATX Case w/Power Supply
- **Victoria 15" 1280x1024 Monitor**
- **Victoria 3-Button Serial Mouse & Pad**
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- MS DOS 6.22
- **Novell NetWare 4.1 25User (CD-ROM)**
- **3COM 3C905 PCI 100BT Ethernet Card**

200MHz	**$6699**

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- **Intel Venus/Natoma ATX Motherboard w/256K Cache**
- Intel Pentium® Pro Processor & CPU Fan
- **64MB EDO Exp. to 256MB**
- 1.44 Floppy Disk Drive
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- **Adaptec 2940 PCI SCSI Controller**
- **HP C1534 2.0GB SCSI Tape Drive INT**
- **6X SCSI CD-ROM INT**
- Trident PCI VGA w/1MB
- 2-16550 Serial Port & 1-Parallel Port
- Full Tower ATX Case w/Power Supply
- **Victoria 15" 1280x1024 Monitor**
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- Desktop Case w/230w Power Supply
- **Victoria 15" 1280x1024 Monitor**
- **Victoria 3-Button Serial Mouse & Pad**
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75MHz	**$1245**
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- Intel Pentium® Processor & CPU Fan
- **16MB Exp. to 256MB**
- 1.44 Floppy Disk Drive
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- 2-16550 Serial Port & 1-Parallel Port
- Mid Case w/230w Power Supply
- **Victoria 15" 1280x1024 Monitor**
- **Victoria 3-Button Serial Mouse & Pad**
- 104-Key Enhanced Keyboard
- **MS Windows 95**
- **US Robotics Sportster 33.6 INT**

100MHz	**$1499**
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- PCI Enhanced IDE Controller
- 2-16550 Serial Port & 1-Parallel Port
- Mid Case w/230w Power Supply
- **Victoria 15" 1280x1024 Monitor**
- **Victoria 3-Button Serial Mouse & Pad**
- 104-Key Enhanced Keyboard
- **MS Windows 95**
- **US Robotics Sportster 33.6 INT**

133MHz	**$1669**
150MHz	**$1719**
166MHz	**$1819**

Victoria Blue System

- **Intel Marl Triton II Pentium® Motherboard**
- **256K Pipeline Cache Ext. to 512K**
- Intel Pentium® Processor & CPU Fan
- **16MB EDO Exp. to 256MB**
- 1.44 Floppy Disk Drive
- **W.D. 2.5GB EIDE Hard Disk**
- **8X EIDE CD-ROM INT**
- **Diamond Stealth 64 PCI w/2MB VRAM**
- Sound Blaster 16 PNP
- **Yamaha YST-M7 Speakers**
- PCI Enhanced IDE Controller
- 2-16550 Serial Port & 1-Parallel Port
- Mid ATX Case w/Power Supply
- **Victoria 15" 1280x1024 Monitor**
- **Victoria 3-Button Serial Mouse & Pad**
- 104-Key Enhanced Keyboard
- **MS Windows 95**
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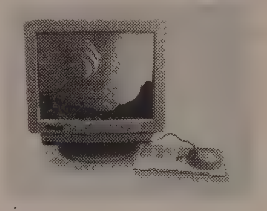

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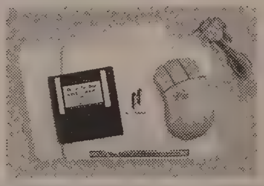

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MOUSE	☐ VICTORIA ☐ MICROSOFT ☐ LOGITECH ☐ GENERIC ☐ SERIAL ☐ BUS ☐ TRACKBALL
SOFTWARE	☐ DOS 6.22/WINDOWS 3.11 ☐ WINDOWS 95 ☐ WINDOWS NT 4.0 ☐ OS/2
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Gift-Giving Special

Gimme, Gimme

By Jonathan E.

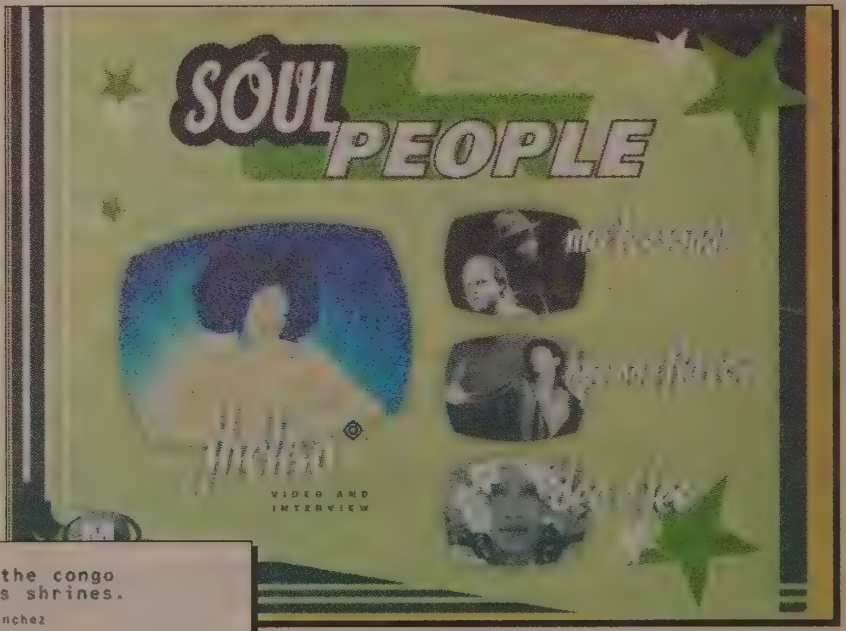
It's said that it's better to give than to receive. The corollary to this proposition, and my best advice for giving, is always to give something that you'd like to receive yourself, but whilst projecting yourself to be that recipient.

Here are some multimedia-type things that I'd like to be given if I hadn't already had review copies. You can even give them to people who don't have computers, if you still know any—and, frankly, for the most part I'd much rather have a gift that didn't require a computer for its use, although an actual new computer—think laptop or superfast desktop machine—would be a much appreciated gift! Please include the batteries.

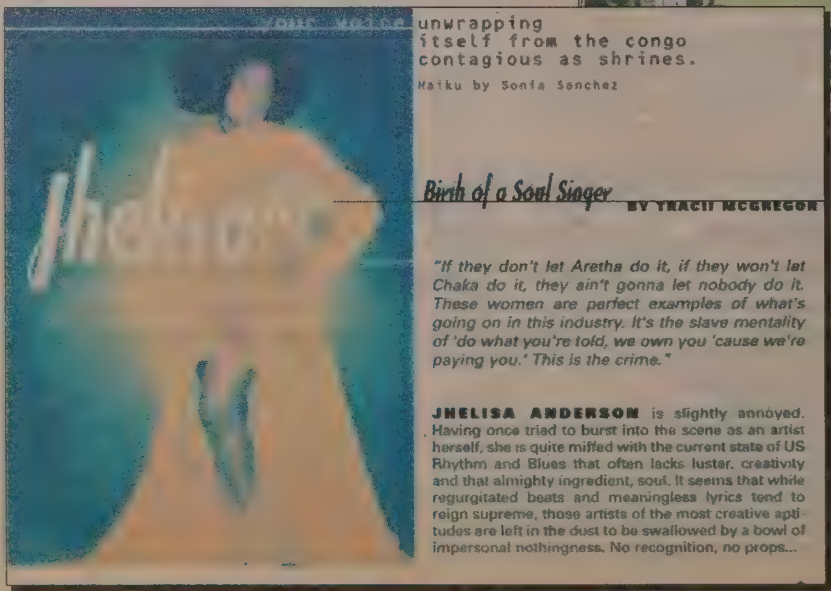
HardWired

'Tis the season of goodwill and time to salute Wired Ventures' new book-publishing division, HardWired. OK, OK, I occasionally poke a little fun at *Wired* and its self-important attitude in the Gulch Gossip column—but, when it comes to multimedia events on paper, *Wired* sets the pace.

Mind Grenades—Manifestos from the Future dramatically demonstrates *Wired*'s style with a collection of the graphic work from the front of the magazine, those pages leading into the table of contents where a striking phrase from one of the issue's stories is expanded upon with elaborate imagery. Obviously the book is repurposing in action, a noble multimedia tradition; but it's valid repurposing because there is value added from the collection of this work, three year's worth, in one place.



Soul Motion CD-ROM



unwrapping
itself from the congo
contagious as shrines.

Haiku by Sonia Sanchez

Birth of a Soul Singer

BY TRACII MCGREGOR

"If they don't let Aretha do it, if they won't let Chaka do it, they ain't gonna let nobody do it. These women are perfect examples of what's going on in this industry. It's the slave mentality of 'do what you're told, we own you 'cause we're paying you.' This is the crime."

JHELISA ANDERSON is slightly annoyed. Having once tried to burst into the scene as an artist herself, she is quite miffed with the current state of US Rhythm and Blues that often lacks luster, creativity and that almighty ingredient, soul. It seems that while regurgitated beats and meaningless lyrics tend to reign supreme, those artists of the most creative aptitudes are left in the dust to be swallowed by a bowl of impersonal nothingness. No recognition, no props...

Beyond that, the printing, being "8-color, using 25 different inks," is even more extravagant than on the original magazine pages. It looks absolutely gorgeous and is undoubtedly the coffee-table book of the season in the digi-

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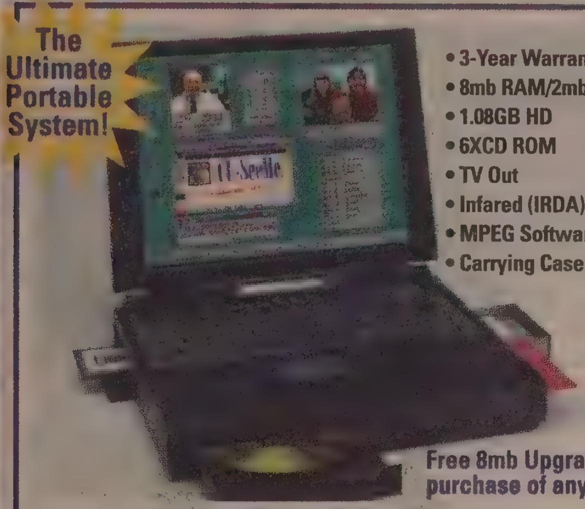

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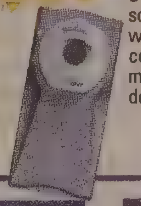

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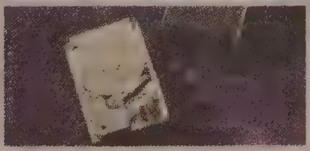

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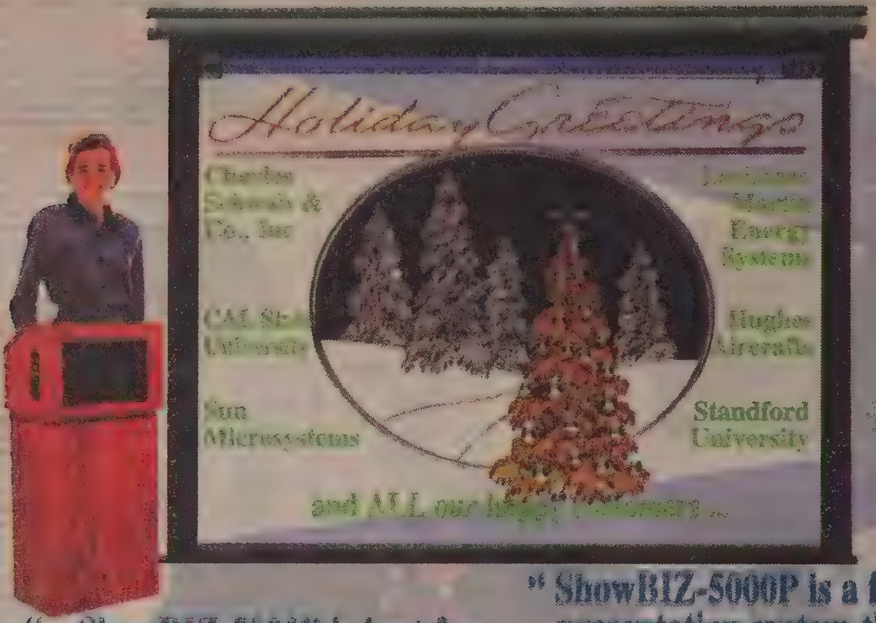
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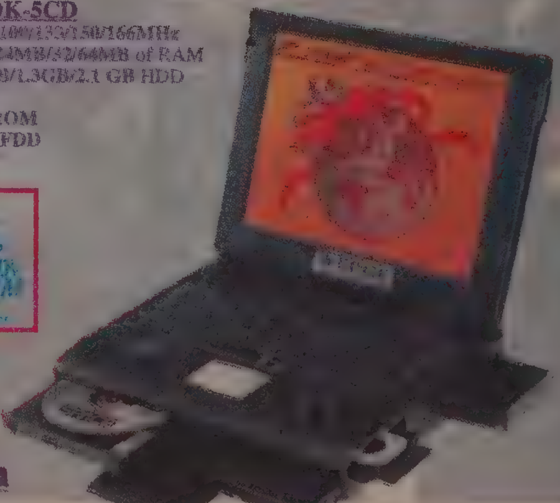

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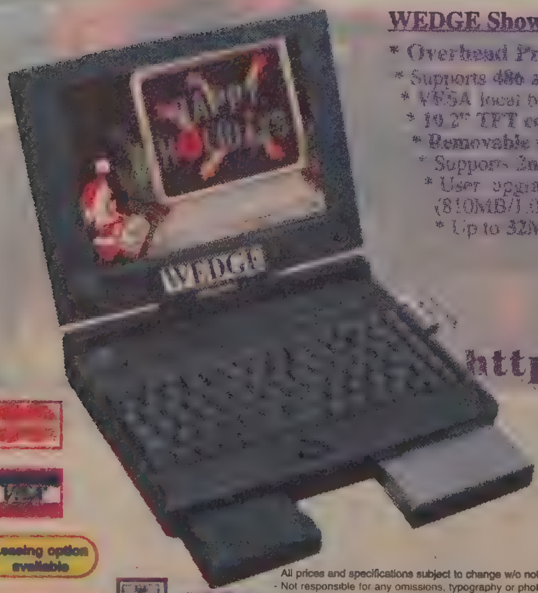
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tal-media-art category. Fear not, the trademark pompous, even overbearing, futurist propaganda is undiminished—although not quite totally intact. In at least one instance, a page from the original spreads was dropped, leaving one to wonder just what the author had in mind. For example, just what is the third "great new means of expression" that flowered in America since World War II? (Go to *Wired* 3.04 to find out.)

Frankly, however, *Mind Grenades* is not for literal reading; it's succulent eye-candy, eye-candy to help you or your recipient truly grok the future as *Wired* sees it.

Reality Check is more repurposing of the magazine's content; this time of the, surprise!, Reality Check column, wherein various experts opine about the date of arrival of new technologies into the marketplace. Having these columns collected (and somewhat rewritten) into one place and arranged chronologically by the ETA of the technology makes a handy and fascinating at-a-glance overview of what may be coming up.

Even more useful is the addition of URLs for various relevant Web sites so one may do further, more detailed research. The technologies covered range from the Orgasmatron (ETA 2009) to Noninvasive Surgery (ETA 2004) to Most US Produce Grown Hydroponically (ETA 2051) to Software Superdistribution (ETA 2005) to the unlikely arrival of Jetpacks For Personal Transportation to the more timely One-Fifth Of US Workers Telecommute (ETA 2003). The experts range from research scientists to freelance obsessive pundits.

For sure, crystal ball-gazing is as much an art as a craft or a science even for the experts—but I can confidently predict that *Reality Check* would be a fine gift for the dedicated amateur futurologist.

However, what the hardcore cybermedia futurist slut will crave most for Christmas from HardWired is John Brockman's *Digerati—Encounters with the Cyber Elite.* Brockman rounds up most, but not all, of the usual suspects who have conspired so tirelessly to make it necessary, or at least eminently desirable, to have a computer in every home. You'll recognize many of the names: Alsop, Barlow, Brand, Bunnell, Carlston, Caruso, Case, Dvorak, Dyson and so on through Gates, Kelly, and Metcalfe among others to Rheingold, Rossetto, Stoll, Turkle, Winer, and Wurman.

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It's easy to laugh at Brockman's constant need to insinuate himself into an almost central position in the story—but it is the story of his "encounters" with this crowd, and hopefully he wrote it this way looking for a bit of self-deprecating amusement. There's also a certain incongruity between the frequent proclamations of community, connection and digital flattening of hierarchy by the book's subjects and the very notion of an elite. However, *Digerati* captures the thinking of this "elite" both more concisely and with more depth than usual. It's a real page-turner. I've been reading an incomplete set of galleys; every time I've come to some missing pages I've been frustrated, left hanging, really wanting to know what is said next. There's a surprising amount of ambiguity, even fearful worry, about the future expressed within the book by its subjects, although Brockman himself seems mostly breathlessly excited by the associated glamour and his proximity to it.

Overall, the cyber-dictated future seems to be accepted as only partially desirable but unavoidable; generally, the digerati's response is to figure out how to make the best of it—sometimes for themselves and sometimes for others. Of course, these are complex and sometimes contradictory issues being debated, but, ultimately, the positively directed individuals cause the book to become quite inspiring.

There's an amusing attempt at mythologizing the whole adventure through attaching archetypal characterization names to each subject—The Seer, The Gadfly, The Scribe, The Prodigy, The Idealist, The Sceptic, and so on (but no Scam Artist!). It's rather like some print-bound version of a high-brow chatroom. Adding to that feel is the absolutely amusing icing on the cake, the commentary about each other from the characters themselves.

If, as Brian Eno said within the pages of *Wired* (but not in this book) "Gossip is philosophy," *Digerati* is the Philosphers' Stone. Within these pages even commoners can discover who thinks who probably took too much LSD and who else thinks the same character should stick to writing popular books. Such delightful, perhaps playful, bitchiness contrasting with the usual plethora of nicer platitudes brings an authentically messy sense of community into at least some version of virtual reality.

The inclusion of the subjects' email addresses (assuming such a thing wasn't on one of the missing galley pages) would have strengthened the book enormously. The search-savvy won't have much difficulty finding them anyway, so why pretend that this elite is untouchable and accessible to only such high-flyers as Mr. Brockman?

Never mind, *Digerati* is a book for real reading; it's got genuine content—a word that, ironically enough, meets with disapproval from most of its subjects. It'll make very interesting reading in a few years when the dust from the cybermedia explosion has settled a bit and we can see who got how close to what actually turns out - but there's no need to wait. Hardcore cybermedia futurist sluts will want this now. Don't even wait for Christmas!

Om Mushrooms Soul Motion

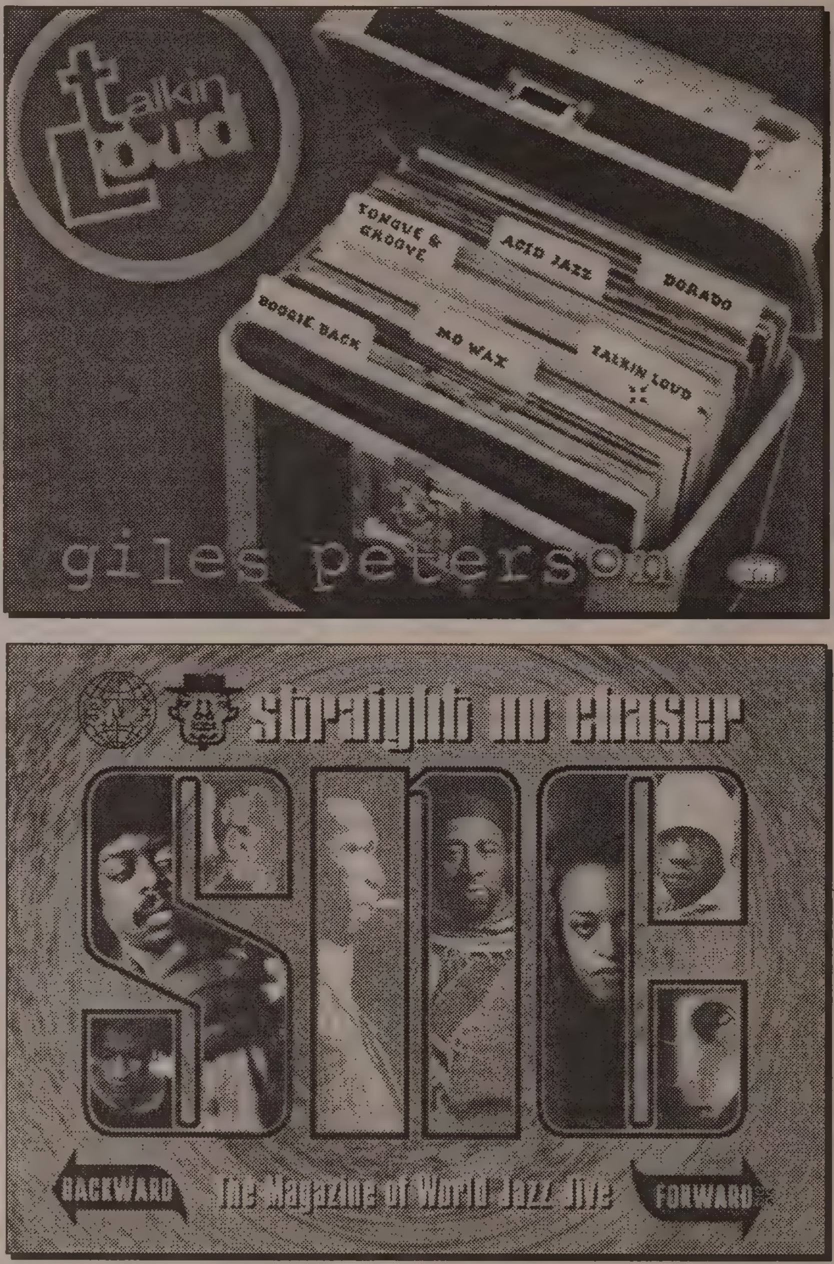
The great Expanded CD boom appears to be over (didn't I tell you that it wouldn't last about a year ago?).

Although there are various mix-it-yourself CD-ROM titles out there, I'm slowly coming to think that if you want to mix it yourself all you really need is to get yourself a pair of Technics 1200s and a mixer, with maybe a sampler, along with a tasty pile of platters—that's how most DJs do it, later graduating to bedroom studios with the appropriate synthesizers and computers.

Partially confirming my hunch are Om Records' latest two releases, which are both double discs, each consisting of one Red-Book-audio CD and a CD-ROM. DJ Mark Farina does a continuous mix with a definite live feel of contemporary acid jazz selections on *Mushroom Jazz*. Good funky stuff with a touch of the mystical downbeat thrown in. The CD-ROM portion of the set illustrates both the good and the not-so-good things about musical multimedia. Firstly, there's a music mixer, "MixId Up" that's as good as any of the software mixers that I've seen—but still feels like you're painting-by-numbers. The sound quality is also a bit raw in some places, although the basic grooves and samples are decent selections. It's not so much bad as just not everything one hopes for.

The rest of the CD-ROM showcases Om Records' real strength when it comes to these releases—the feel of the scene is well-captured, along with pretty deep background info in this particular case. There's a groovy collection of club fliers and cards from both the UK and here, profiles of DJs, interviews with several of the guys behind the significant record labels, Talking Loud, Acid Jazz, Dorado, and others, plus a look at one of the world's great music magazines, *Straight No Chaser*. All told, *Mushroom Jazz* is a solid introduction to or memento of some of today's tastiest music.

Soul Motion is not a continuous DJ mix but has an equally fine selection of both the classic sound of Curtis Mayfield and the contemporary approach of such artists as Jhelisa and Outside. Its CD-ROM section has a bit of a '70s-revival feel with trailers for *Superfly* and *Shaft*, but there's also a good interview with Jhelisa (she's great) and her video along with the same from Dee C. Lee. *Urb Magazine* rounds out the CD-ROM with a selection of articles plus a fashion feature.



***Mushroom Jazz* CD-ROM**

Both CD-ROMs have their own distinct look and feel, which is definitely cool—no design templates here, although the structure is your basic hierarchy. Either the *Mushroom Jazz* or *Soul Motion* set would be groovy gifts for the music fans in your life. And, you know, the music on these discs isn't so far apart, and the prices are ultra-reasonable at a mere $16.98 list price each—so splurge a little and give the pair!

Makyo Is Silent

Plain unadorned music without the CD-ROM still gives great pleasure to the music fan. Makyo's *Rasa Bhava* from Silent Records sounds like it could give very great pleasure to cyber-dub-ethno-ambient music fans. Generally somewhat reminiscent of Loop Guru, and with a very off-hand remix by Bill Laswell that dominates part of the CD with an overly "Hallucination Engine" feel, *Rhasa Bhava* still projects enough of its own personality to stimulate interest.

Loads of acoustic percussion and vocal overtones alongside gongs, bells, and no!, no whistles!, skillfully electronically manipulated over a good-old-fashioned throbbing propulsive bass and a certain amount of drones, along with its informed-by-Zen-Buddhist-principles-of-illusion-and-transcendence state of ecstatic drifting spaciness, make *Rhasa Bhava* a serious contender for Archaic Revival release of the year. Certainly, it's the release for the achieving-altered-states-through-music types on your list—or just for anyone who spends too much time in front of a screen.

Bootleg.net

Lastly, for those on your list who are into musical transcendence but whose taste is a little (or a lot!) less electronic, and who would really like you to get them something through the Net, I highly recommend B&W Music's "Bootleg.net" series, which is so far up to two releases: Madala Kunene's *King of Zulu Guitar Live - Vol. 1* and Dizu Plaatjies & Mzwandile's *Ethno Trance Live*.

The principle is simple. B&W have been putting out an absolutely superb series of mostly South African jazz releases over the past year, but there are some recordings that are perhaps not suitable for regular commercial channels, however musically fascinating they are. So why not make them only available through the Internet and mail order?

This is the Bootleg.net series. The first two releases are live recordings in the open air with ambient sounds in the background and a certain amount of noodling around. But, if your recipient is into this sort of thing, it's

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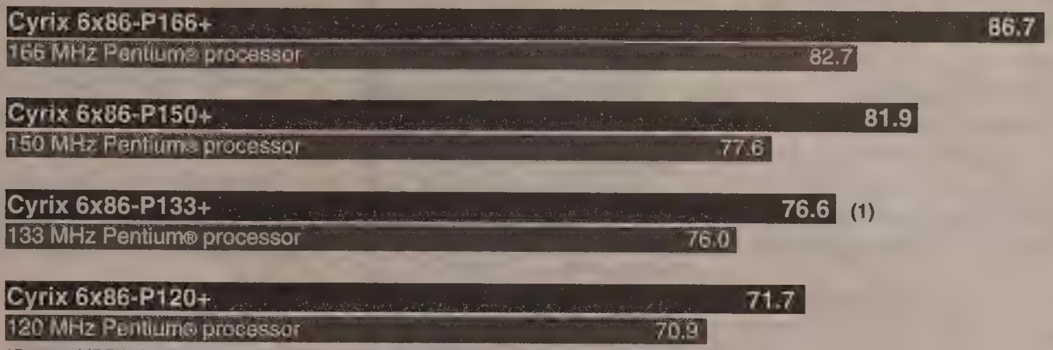

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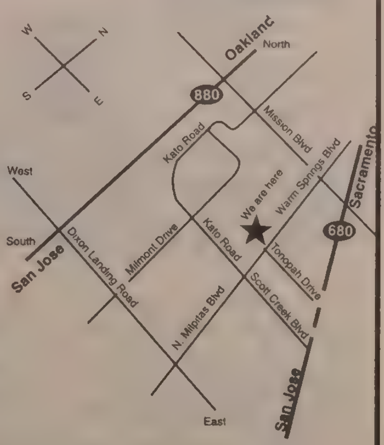

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Gift-Giving Special *continued...*

quite unbeatable. Either release is raw but transcendent, the basic unmediated musician practicing his art—and totally uncyber. Kunene plays acoustic guitar in an imaginative and muscular South African style with some singing and groaning, while Plaatjies and Mzwandile pluck, bow, scrape, and strike instruments made entirely from natural materials to produce a very eerie music.

If you think your recipient would prefer a more polished or produced music, I'd recommend any of B&W's other South African releases but most particularly the Outernational Meltdown series of collaborations: *Free At Last*, *Healer's Brew*, and *Jazzin' Universally*, or Sipho Gumede's *Ubuntu-Humanity*, or Madala Kunene's studio recording, *Kon'ko Man*. These are all available in regular record stores along with several other titles by artists such as Pops Mohammed, Barungwa, Moses Taiwa Molelekwa, and the Cameroonian, Brice Wassy— but if you want that Net-stuff, you should send your browser over to *http://www.bandwblueroom.co.uk/IndexBW.html* . To be honest, I don't think the Web site is quite finished yet—it certainly needs a bit of updating—or that B&W totally have the international mail-order thing together, but you can jog the process along via email to *mail@bandwblueroom.co.uk* or to the American representative, Scott Taves at *staves@interaccess.com* .

The music's worth it and you won't find the Bootleg.net series anywhere else, so at least you'll get a good and unique musical gift, and via the Internet too! ■

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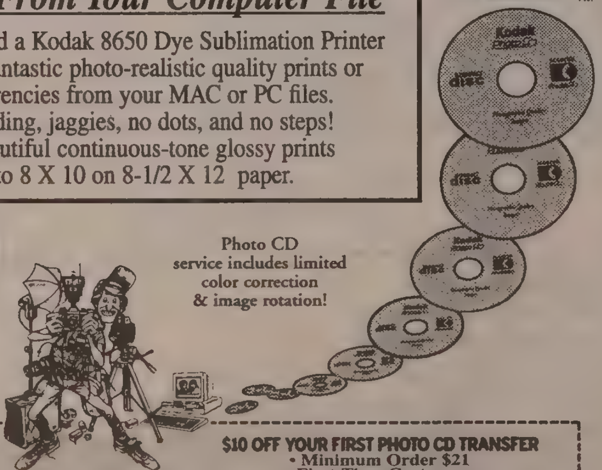

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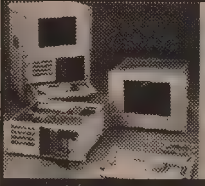

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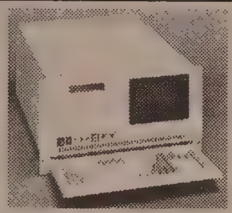

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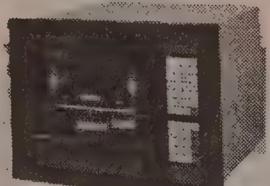

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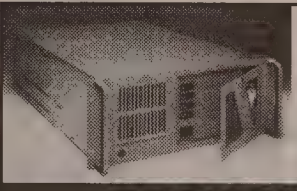

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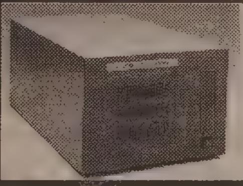

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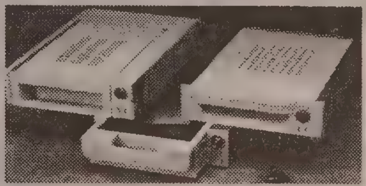

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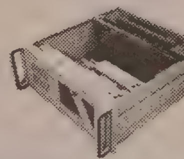

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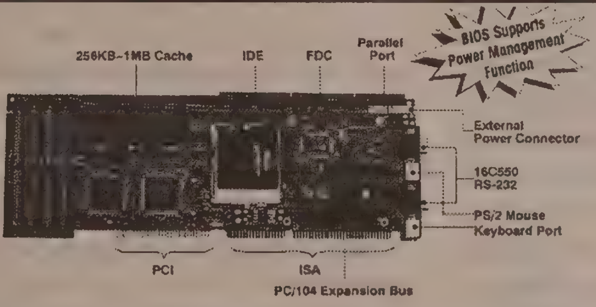

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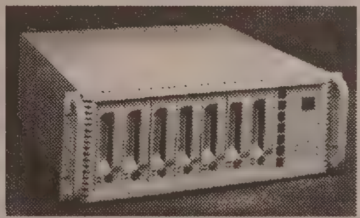

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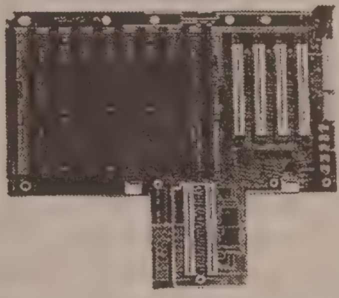

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Fundraising Over The Internet

Raising Money And Awareness In The Digital Age

By Anna Couey

In July, the Institute for Global Communications (IGC) and Mal Warwick & Associates presented a day-long workshop about fundraising on the Internet. IGC is a San Francisco-based nonprofit organization that has been in the business of providing online access and tools to the progressive community since 1984, and is the home of PeaceNet, EcoNet, ConflictNet, LaborNet, and WomensNet. Mal Warwick & Associates is a Berkeley-based company that specializes in fundraising and marketing for nonprofit organizations.

This means that instead of simply writing a check to a nonprofit and receiving a newsletter, Internet users can more easily become highly knowledgeable about an issue and actively involved—which in turn, makes them more likely to pay membership dues.

The workshop focused on how nonprofits could use the Internet for individual membership development—how to find new members and provide services to existing ones. Membership development is crucial to the sustainability of many nonprofits, both because memberships typically provide over 50% of a nonprofit organization's income, and because individual members give an organization an invaluable community support base for its work. While wealthy patrons, foundations, and government funds may also contribute to a nonprofit's budget, having a large pool of individual members mitigates the dangers inherent in relying solely on a few large donors. As Nick Allen, senior consultant at Mal Warwick & Associates, points out, even though it's less work to raise a few large donations from a small pool of donors, "if some of them don't like what you do or change their mind, you're really sunk. You could lose 10% of your income with one person changing his or her mind."

However, individual membership development is costly and labor-intensive work. Nick Allen estimates that most large national nonprofits, such as the American Cancer Society or Planned Parenthood, use direct mail campaigns to bring in the majority of their memberships—and with direct mail, they're doing well to get a 1% response rate. The mathematics of sustainability means an organization has to send out millions of letters to generate sufficient income to sustain its programs. And, direct mail, along with other traditional fundraising techniques, is proving to be of limited effectiveness. Nick Allen says, "there's a lot of talk in fundraising circles of how can we reach 'Generation X,' because they don't seem to respond as well to a lot of the traditional fundraising techniques." Given the stakes involved, developing effective new techniques for raising money is important work.

The Internet appears to solve many of the problems that direct mail campaigns face: Cost of entry is comparatively low, so that even small nonprofits can use the Internet to reach a greater number of people than they could possibly afford in any other medium, and Internet demographics indicate a largely youthful and monied audience. With the advent of the World Wide Web, many nonprofits have started to develop their presence on the Internet, and some have begun to include online membership registration and virtual stores at their Web

continued on page 54

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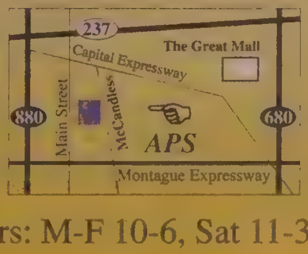

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○ MACINTOSH NOTEBOOK

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STEP TWO: SYSTEM CONFIGURATION:

○ INTEL ○ AMD ○ CYRIX ○ MAC QUADRA/PERFORMA ○ MACPOWER PC

CPU MHz & SPEED: ○ PENTIUM PRO ○ PENTIUM ○ 486
○ DX4 ○ DX2 ○ DX ○ 5X86 ○ 6X86 ○ Quadra ○ PowerPC
○ 200 ○ 180 ○ 166 ○ 150 ○ 133 ○ 120 ○ 100 ○ 80 ○ 75 ○ 66

BUS TYPE ○ PCI ○ VLB ○ EISA ○ ISA

CACHE ○ 64K ○ 128K ○ 256K ○ 512K

RAM: ○ EDO ○ 2MB ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB

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MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI
○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI
○ 20" ○ 21" ○ Multisync

FLOPPY DRIVE: ○ 1.44MB and/or ○ 1.2MB

FAX MODEM: ○ Internal ○ External ○ 33600bps ○ 14400bps ○ 28800bps

CASE TYPE: ○ Mid Tower ○ Desktop ○ Full Tower

VIDEO CARD RAM ○ 512KB ○ 1MB ○ 2MB ○ 3MB ○ 4MB

POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard
○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen

OPERATING SYSTEM NEEDED: ○ Windows 95 ○ OS2/Warp
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○ 25 to 50W
○ 50 to 75W
○ More Than 75W

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SCREEN TYPE: ○ Mono ○ Dual Scan Color ○ Active Color

PCMCIA SLOT: ○ Type I ○ Type II ○ Type III ○ Type IV

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○ Fax Modem ○ CD\MultiMedia

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continued from page 50

sites. There have also been some attempts at online auctions to fundraise for nonprofits.

Effective Internet Use: Multi-Purpose, Multi-Platform

At the Institute for Global Communications, which has worked with progressive nonprofits for years to use online communications as a means of disseminating information and doing advocacy work, the online fundraising program represents an important strategical shift. IGC now encourages the nonprofits it works with to, as Michael Stein, director of special projects at IGC puts it, "tie in membership development with the advocacy work that they're doing because we know that that's the best way to mobilize members and the best way to keep members giving things back to the organization in terms of people power, but also in terms of money." IGC also emphasizes a multi-tool approach—including traditional communication channels such as print and in-person communications along with the World Wide Web and email.

The impact of IGC's strategy is much broader than raising money. In fact, even nonprofits that are successfully making money now over the Internet are generating only 1–5% of their memberships online, and still rely heavily on traditional methods of fundraising to keep themselves going. But the repercussions of weaving of information, advocacy, and membership development over the Internet are beginning to reveal the possibility of a sea change in the role of members of nonprofits—from passive contributor to active participant. Nonprofits are finding that they can use the Internet to disseminate up-to-date and detailed information that they could never afford to print and mail, much less distribute instantaneously. An Internet user can typically go to the nonprofit's Web site to obtain detailed background information about the issues the organization is addressing, join an online discussion list for ongoing news about a particular issue of interest, participate in virtual direct actions (such as sending email to a corporate or government official responsible for a noxious policy), as well as become a member. This means that instead of simply writing a check to a nonprofit and receiving a newsletter, Internet users can more easily become highly knowledgeable about an issue and actively involved—which in turn, makes them more likely to pay membership dues.

For example, at the American Civil Liberties Union (ACLU) Web site (*http://www.aclu.org*), if you select Cyber-Liberties from the list of issues, you can obtain not only the press release that announces the filing of *ACLU v. Reno*, which challenges the constitutionality of indecency provisions in the Telecommunications Bill of 1996—you can also read testimonies given to the court, the entire text of the judgement, and statements of support from other constituencies especially affected by the restrictions on freedom of expression, such as the arts community and youth. You can return to the site to get regularly updated news on the issue. And you can join the ACLU. The ACLU launched its Web site with

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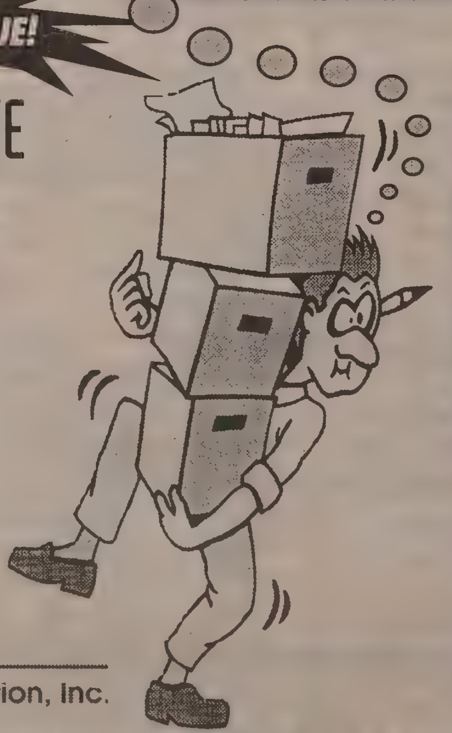

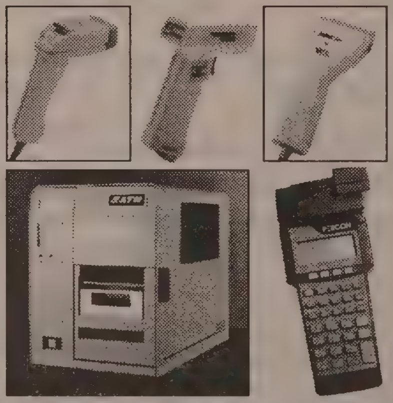

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the intention of "creating another channel for our public communications, but having decided to open one, membership and development became part of the subject matter it had to cover," says Lynn Decker, online programs coordinator at ACLU's national office.

Fundraising over the Internet is neither a quick nor reliable way to make money, but if you're using the Internet to meet other needs and can weave fundraising into it, you just might build yourself a trickle of revenue you wouldn't otherwise have.

The short history of the ACLU's Web site is spectacular. The ACLU announced the opening of its Web site at a press conference on February 7, 1996, coinciding with an announcement that the ACLU would seek a temporary restraining order against the indecency provisions of the imminent Telecommunications Bill. On February 8, President Clinton signed the bill into law, and the ACLU filed its legal challenge. Within 48 hours, the ACLU received over 200,000 hits to its Web site. Two weeks later, more than 5,000 visitors to the site had used its "instant action" feature to email or fax US Attorney General Janet Reno, urging her not to prosecute under the new indecency law. And within three months, the ACLU Web site had generated $25,000 in contributions, according to Nick Allen in *Fundraising on the Internet.* While Decker acknowledges that online membership revenue has "stabilized to a more modest volume" since the first heady days of launch, she nevertheless anticipates online membership will bring in a little under 5% of the organization's new member income for 1996—the most difficult and costly category of member recruitment. "We would definitely say the Web site is worthwhile overall, both as a tool for reaching the public, and because it saves us a good deal of money on internal communications between the national office and our fifty-three affiliate offices. Whether it is worthwhile as a fundraising tool alone will take quite a bit longer to tell, but the early results are promising for us," Decker says.

The Rainforest Action Network (RAN) has also found the combination of virtual advocacy, public education, and online fundraising to be a potent recipe. A ten-year-old organization dedicated to protecting the Earth's rainforests and supporting the rights of their inhabitants, RAN is using the Internet to reach more people than it possibly could in any other medium, and encouraging them to take informed and instant nonviolent direct action. For example, as soon as RAN learned that the

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Fundraising Over The Internet

continued from page 56

Guarani people of Brazil were being threatened with imminent eviction from their lands to make way for commercial farming interests, the organization immediately put an action alert on its Web site. "We had people sending email messages directly to the President of Brazil and to the Minister of Justice who had jurisdiction over this. And ten days later, the tribe was given their land, the suit was dropped, and they kept their territory," says Mark Westlund, media director at RAN. "Now we can't take complete credit for that, but we were certainly part of that victory."

RAN's Web strategy has been to push the medium to develop a visually stunning, highly interactive, and technically sophisticated site "that would appeal not only to activists, but teachers, kids, parents," says Hugo Llamas, RAN's information coordinator. In keeping with the culture of the Internet, RAN has developed a "Tribal Links" section that enables visitors to add their own Web page as a link. According to Westlund, there are also thousands of links from other Web sites to RAN. RAN's Internet-savvy approach seems to have paid off—the site receives 17,000 hits a week. "We have actually been extremely pleased with the response that we have received from arbiters of the World Wide Web. We have a Trophy Room section on our site that lists the various accolades we have received. From the outset, we did considerable press, public and online outreach… Our hard-hitting campaigns have generated plenty of public attention and we have brought these campaigns to our site. Hence, the media often visit our press release and campaign sections to gain an understanding of the issues. Even our targets, such as Mitsubishi and Texaco, are one of the most frequent visitors to our site. We like to keep their spin-doctors busy," says Llamas.

Pleased as RAN is with the impact of its Web site, Westlund is cautious about applying the label "successful" to the organization's online fundraising efforts at this stage of the game. In its year and-a-half of existence, the Web site has proven to be an effective public education and direct action program that more than covers its costs. As a programmatic tool, it is self-supporting. But the vast majority of RAN's members still join through the postal system. RAN has received 140 online membership registrations this year; Westlund estimates that 500 people have joined since the Web site's inception, either directly online or by traditional means, as a result of the Web site. However, there are some encouraging indicators in RAN's online memberships—they tend to be at much higher than the minimum $35 level, and are more international. "There's success, and there's reasonable," says Westlund. "If I were coming in here looking at this to be an absolute gold mine… I'd be disappointed… But since I came in hoping that this thing would pay for itself and not be costing me any money, and I find that it's doing better than that, with my expectations, it's doing great!"

No Quick Fix

The successful results that the ACLU and RAN have experienced in terms of fundraising, qualified as they are, are extremely rare. Much more common is the story that Daniel Schact tells about developing the International Rivers Network (IRN) Web site (*http://www.irn.org*). IRN was founded in 1985 "to halt the construction of destructive river development projects and to promote sound river management options worldwide." IRN has an eleven member staff, and an approx-

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imately $700,000 budget. It conducts research and analysis on proposed river development projects, provides financial support to some thirty river protection campaigns around the world each year, works to reform development policies at institutions such as the World Bank who are responsible for inappropriate river development projects, and maintains substantial information resources.

IRN's purpose in developing a Web site "is to be a global resource for activists and interested people," says Schacht. It is a wonderfully information-rich site, including documents, news, listservs, and related links about river development around the world. The site has been up for almost a year. Over the summer, Schacht says, IRN began to build some fundraising elements into its Web site, including an online registration form. So far, online revenues have not been phenomenal. While the site has been successful in publicizing IRN's work, and serving as a virtual information desk, thus saving on staff time needed to answer general questions, as of late September, Schacht reported, "The Web site has raised less than $1000. Right now it is a money drain."

The organizations that appear to be the most successful in online fundraising right now are those with household name recognition (large national organizations with large budgets and pre-existing well-developed membership programs), or those who in some way speak to the interests of the Internet community at large. Good Web sites, whether they are making money or not, generally require staff dedicated to the work of maintaining the content and look of the Web site, as well as responding to people who email gifts and pledges, and other feedback features on the site. They also need to be publicized, and linked into the fabric of the Web to bring visitors to your site. Fundraising over the Internet is neither a quick nor reliable way to make money, but if you're using the Internet to meet other needs and can weave fundraising into it, you just might build yourself a trickle of revenue you wouldn't otherwise have. As Michael Stein points out, "Fundraising programs, as you know, take so long to develop—and the Internet adds in there, and adds power to it, but... it's tricky." ■

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Resources on page 261

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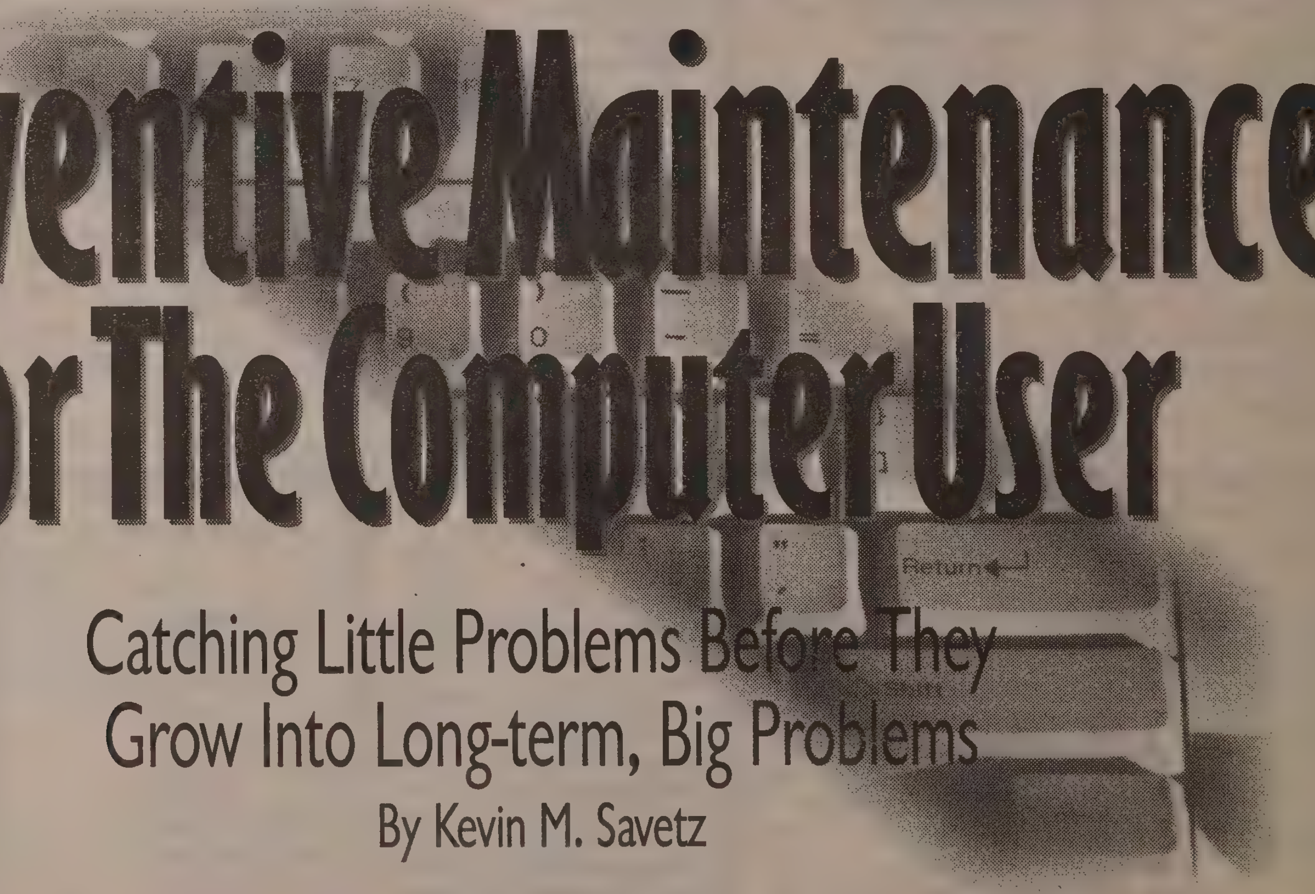

Preventive Maintenance For The Computer User

Catching Little Problems Before They Grow Into Long-term, Big Problems

By Kevin M. Savetz

After a few hours working at your computer, do you walk away in pain? Do your hands hurt? Is your vision blurry? Does your back ache? For many computer users, those little aches and pains are becoming all too common. You shouldn't ignore those nagging pains—they are indications that something isn't right. Careful thought and preparation in how you work can prevent these little problems, and can keep them from becoming big problems.

The most common health problems experienced by computer users are eye strain, wrist or arm pain, and neck and back pain. These problems shouldn't be taken lightly, as they can be indications of larger health problems. Even those of us who don't spend six or eight hours in front of the computer each day can suffer from them.

Repetitive Strain Injuries

Typing and using a mouse puts a lot of strain on your hands. Pressing the keys, squeezing a mouse, and holding your arms in front of you for an extended period each place stress on your body. By continually placing these sorts of strains on yourself, you stand the chance of developing a "repetitive strain injury" (RSI). Repetitive strain injury is a term used to describe any injury caused by a repetitive activity, such as typing. Computer users aren't the only RSI sufferers—you can get one using a cash register, playing the piano, driving, or even using a hammer. RSIs are also known as CTDs: cumulative trauma disorders.

Dan Wallach, a graduate student studying computer science at Princeton University, published the Typing Injuries Frequently Asked Questions List, an archive of information about typing injuries, keyboards, mice, desk chairs, and related subjects. Wallach began publishing the FAQ in 1991 when he got hurt.

During a summer job that required many hours of typing, Wallach developed tendonitis, a type of repetitive strain injury. Initially the disorder was only in his right hand, but it later afflicted his left as well. "I taught myself how to mouse with my left hand, and brush my teeth with my left hand," he says. After several attempts, he found a doctor who understood the problem. "They made me custom wrist splints and gave me hand exercises. But I didn't really start getting better until I was done with the summer job, and wasn't typing all the time."

Wallach began researching ergonomic keyboards, posting his findings to the Internet. At the same time, he started collecting information from the "sorehand" mailing list, a discussion group devoted to issues surrounding repetitive stress injuries. Over the years, his archive of information collected from the mailing list has become vast.

Wallach says what is echoed by many RSI sufferers: If you are careful, you can avoid the symptoms of RSI. If you aren't, the problems will return. For RSI sufferers, avoiding pain means small but important lifestyle changes. For instance, Wallach can't type on a "regular" keyboard anymore: he only uses an ergonomic Kinesis keyboard. "My life had changed, but I am still leading a perfectly normal life," he says.

Today, Wallach works at a customized desk, in an armless desk chair, on an "ergonomic" keyboard, while wearing gloves to keep his arms warm. "I have had various flare-ups over the last few years, but by following a collection of small and fairly common sense rules, I consider myself pretty much recovered," he says. A carefully planned workspace is key to avoiding eye-

continued on page 71

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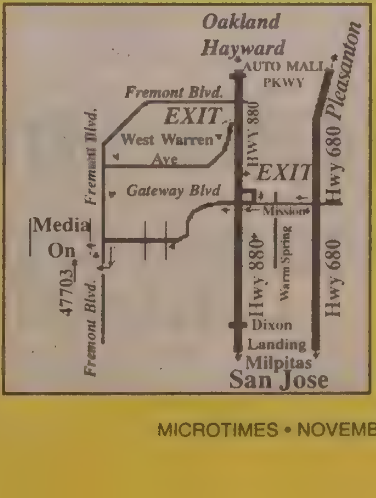
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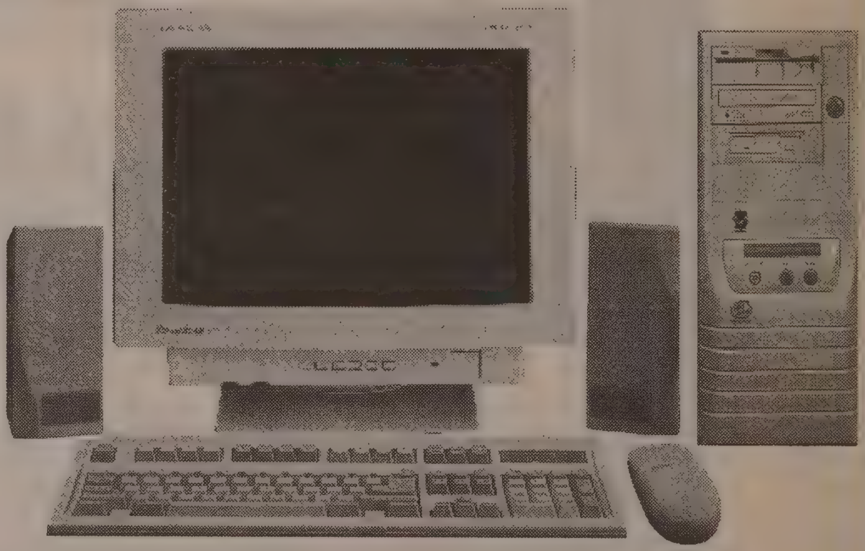

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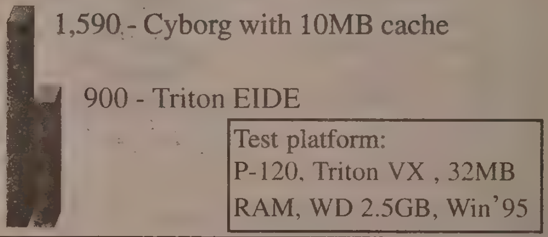

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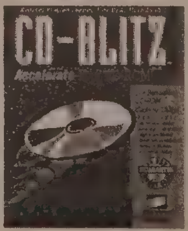

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strain, trauma disorders, and back pain. There's a word for it: ergonomics. Wallach's FAQ defines ergonomics as "the science of adjusting your work environment to fit your body and make it most comfortable."

Wallach is not alone. The number of cumulative trauma disorders reported by private industry is growing by about 7% each year. According to the Bureau of Labor Statistics, in 1993, 302,400 "repeated trauma injuries" were reported, accounting for nearly two-thirds of total workplace illnesses. Computer users are not the only sufferers of trauma injuries—industries with most RSIs include motor vehicles and equipment manufacturing, meat packing, aircraft, clothing makers and grocery stores.

"With repetitive stress injuries," says Adam Engst, "the operative word is 'stress.' It doesn't necessarily have to be physical stress." Engst makes his living with computers—he is author of the *Internet Starter Kit* books and editor of the TidBITS online newsletter. He learned that he had carpal tunnel syndrome in 1993. Engst says that lifestyle changes like a move, marriage or financial woes can affect your hands as much as heavy computer use. "What made the difference was learning to relax, taking breaks, and putting the desk at the right height," he says.

Keyboards

Are those funny-looking ergonomic keyboards worthwhile? Some are, but you need to try a keyboard to see if it fits you well. You would test drive a car before buying one, and sit in a chair before purchasing it—finding the right keyboard is no exception. "Various keyboard vendors have addressed different things—which ways are your wrists bending, for instance. You want them to be straight as possible. Your elbows should be at your side, your hands straight forward," Wallach says. The Kinesis keyboard works for Wallach, but relies heavily on use of the thumbs. If you have bad thumbs, his favorite keyboard won't be

Types of RSIs

THERE ARE SEVERAL TYPES OF REPETITIVE strain injuries, including:

- **Tendonitis:** caused by inflammation of the tendons. Tendonitis may range from mild to debilitating pain, depending on severity and treatment. Tendonitis may be a precursor to carpal tunnel syndrome.
- **Tenosynovitis:** inflammation of the sheaths surrounding the tendons. Like tendonitis, the symptoms of tenosynovitis may be mild or severe. Tenosynovitis can also be a precursor to CTS.
- **Carpal Tunnel Syndrome:** caused when swollen tendons squeeze a nerve in the wrist. Carpal tunnel syndrome is a severe and painful type of RSI. The National Center for Health Statistics estimates at least 1.89 million people suffer from CTS.

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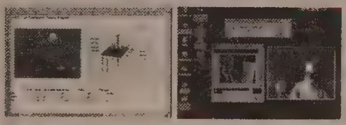

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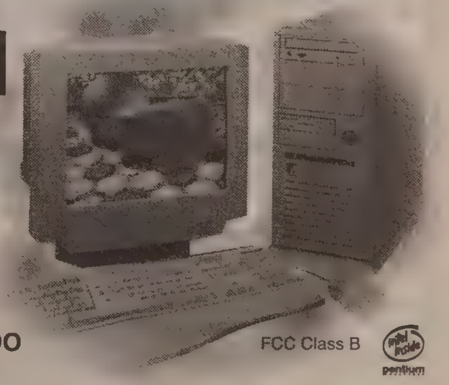

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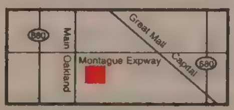

right for you. Many other keyboard options are available, including "chording keyboards" that let you type with one hand by pressing combinations of buttons simultaneously, and even dictation programs that do away with the need for a keyboard and mouse altogether.

Wallach suggests enlisting somebody to watch you while you work at the computer. Have your friend look for bad posture—are your shoulders hunched? (They shouldn't be.) Are your feet flat on the floor? (They should be.) Do you crook your neck to one side to hold the phone while you type? (You shouldn't.) Do you hang your head forward while typing? (This can strain your back muscles.)

If you are careful, you can AVOID the symptoms of RSI. If you aren't, the problems will RETURN.

Engst's carpal tunnel syndrome forced him to give up computer games. Prolonged hammering on the keyboard, usually with force, exacerbates his condition. "If the action is any kind of a shoot-em-up, or Doom, I avoid it like the plague," he says. For Engst, stress is as important a factor as keyboarding. The tension that comes with playing games is as hard on him as the keyboard itself.

Mousing Around

There are also a variety of mouse alternatives available that can ease hand strain. Gripping a mouse and making the small movements of clicking and dragging can be tiresome on your hands and wrists—for some people, a trackball or trackpad is welcome relief. As with keyboards and furniture, no pointing device is right for everyone—one size does not fit all.

Engst recommends using a trackball rather than mouse. With a trackball, you don't need to move your entire arm to make a very small on-screen motion. Larger buttons on the trackball are easier to manipulate than tiny mouse buttons, so your hands and fingers need to do less work.

A less expensive alternative to a new pointing device is learning the keyboard equivalents

continued on page 76

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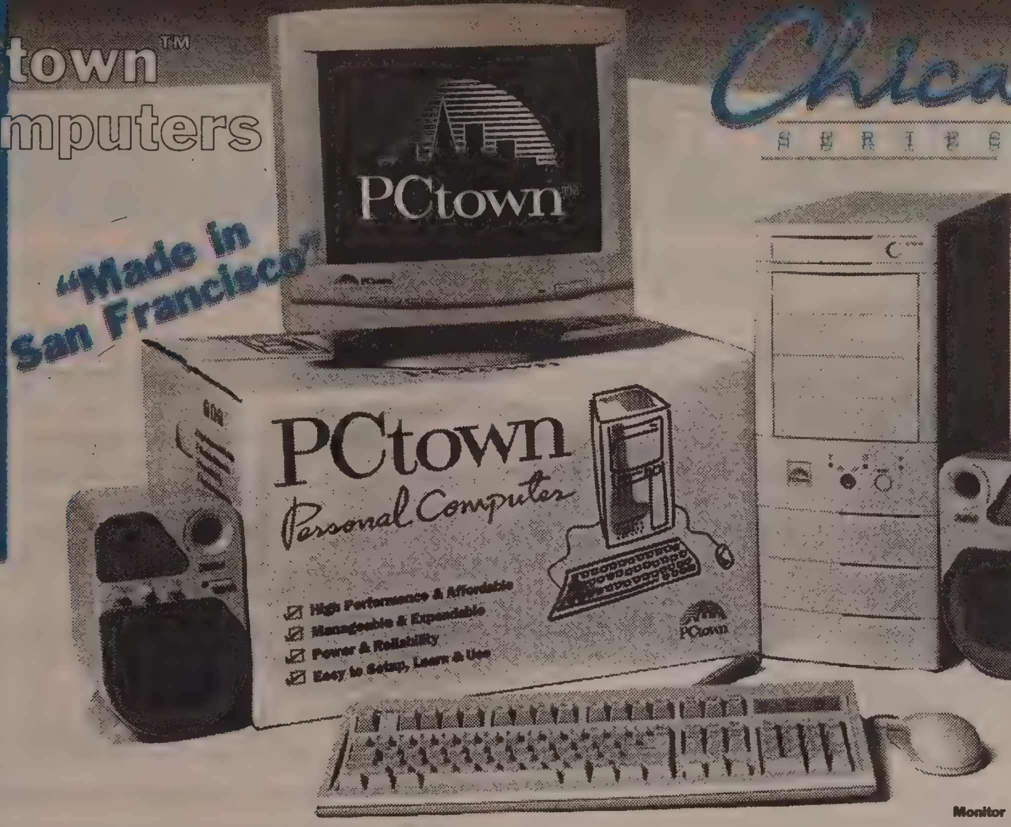
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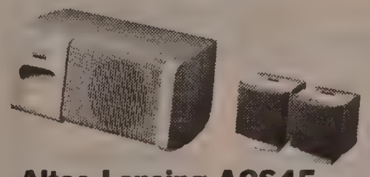

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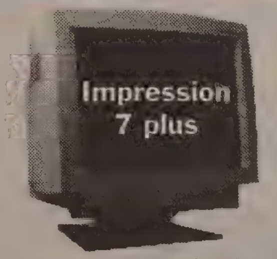

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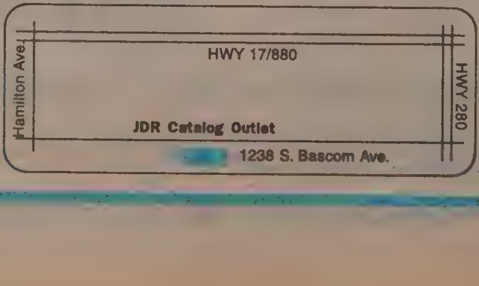

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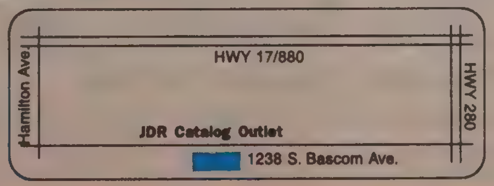

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for the mouse commands you use. By using the page-up and page-down keys instead of the scroll bars, for instance, you can reduce strain on your hands.

"Most people seem to screw up their hands on mice, not keyboards," Wallach says. The worst thing you can do with a mouse is click-dragging. Pressing down with the fingers cuts off blood flow—extended dragging is bad news, and in most cases is not necessary."

Eye Strain

Your eyes are as important as your wrists. By taking some time to evaluate and structure your work environment, you can reduce eye strain.

Placement of your monitor and keyboard is essential—the keyboard should be centered in front of you, and the monitor should be centered behind it. It's common to place your monitor too close or too low, which can increase eyestrain. If you extend your arm outward, parallel to the desk top, while sitting in your chair, your hand should just touch the top edge of the monitor.

Adjust your monitor's contrast and brightness controls so that the screen is bright and readable. On some monitors, an overly bright setting will cause blurry characters. If you can adjust the colors of your programs, remember that black characters on a light grey background are easiest on the eyes.

You would TEST DRIVE a car before buying one, and sit in a chair before purchasing it—finding the right keyboard is NO EXCEPTION.

A well-lighted workspace is essential. According to Wallach's FAQ, "A mixture of fluorescent and incandescent light is usually most pleasing. The most important aspect of lighting is to reduce glare and bright reflections from your screen, nearby glass, or shiny surfaces. Since light conditions change during the day this may require several adjustments while working."

Most importantly, remember to rest your eyes while computing. Stop working for at least five minutes once an hour, to let your eyes (and perhaps your mind) refocus. Even if you don't want to leave your desk, look away from the monitor every few minutes. Focus on a distant object, or close your eyes. It can only take a moment to give your eyes a much-needed rest.

What is the best thing you can do for your own preventive maintenance? According to Wallach, "the single most important thing is to

continued on page 266

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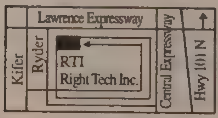

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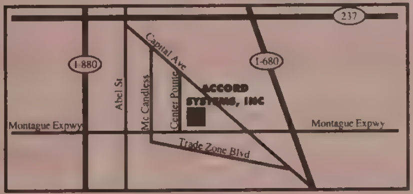

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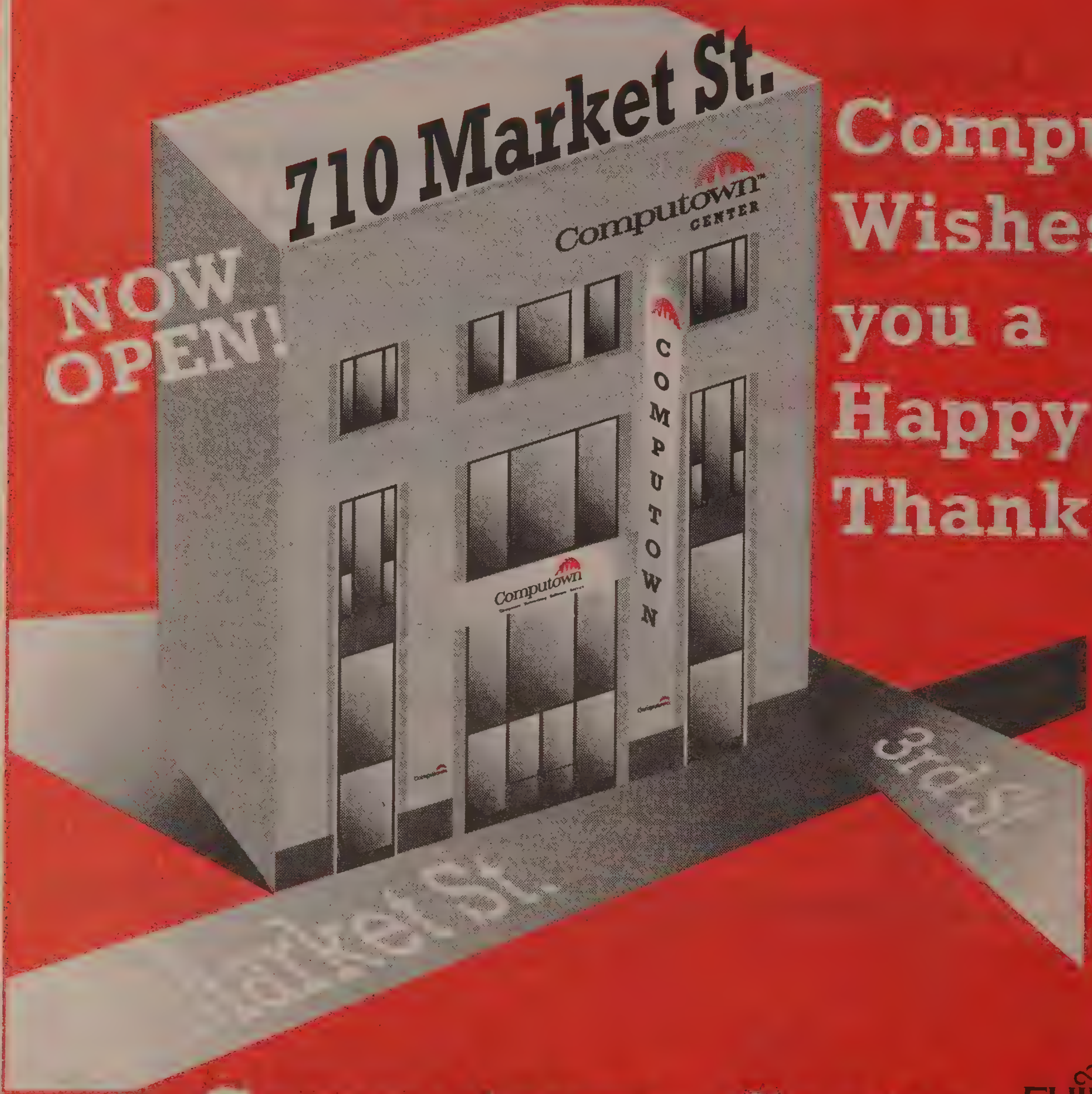
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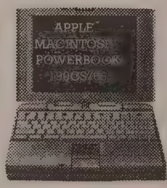
APPLE® MACINTOSH® POWERBOOK

LOWEST APPLE® COMPUTER PRICES

*In stock merchandise, local authorized dealers, new in box items and subject to verification

Authorized Reseller



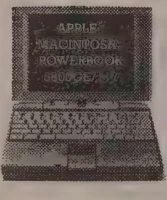
Apple® Macintosh® PowerBook® 190CS/66

- 68LC040/33 MHz
- 8 MB RAM exp to 36 MB
- 500 MB HD
- 10.4"Dual Scan Color
- Built-in Trackpad
- NiMh battery

Part# M4073LL/B

CALL FOR LATEST PRICES*

Part#	RAM HD	Display	Your Price
190CS/66 SERIES			
M4073LL/B	8MB/500HD	10.4"Dual Scan	$CALL*



Apple® Macintosh® PowerBook® 5300CE/117

- PowerPC™ 603e/117 MHz
- 32 MB RAM exp to 64 MB
- 1.1 GB HD
- 10.4" Active Matrix SVGA
- Stereo Input and Output
- Built-in Trackpad
- NiMh battery

Part# M3828LL/B

CALL FOR LATEST PRICES*

Part#	RAM HD	Display	Your Price
5300C/100 SERIES			
M3133LL/B	8MB/500HD	10.4"Active Matrix	$CALL*
M4488LL/B	16MB/750HD	10.4"Active Matrix	$CALL*
5300CE/117 SERIES			
M3828LL/B	32MB/1.1GBHD	10.4"Active Matrix	$CALL*

APPLE MACINTOSH POWERBOOK DUO 2300C/100

Apple® Macintosh® PowerBook Duo® 2300C/100

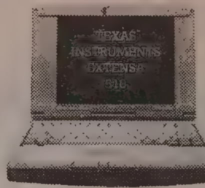
- PowerPC™ 603e/100 MHz
- 16 MB RAM exp to 64 MB
- 750 MB HD
- 10.4" Dual Scan
- Stereo Input and Output
- Built-in Trackpad
- NiMh battery

Part# M4220LL/B

$1699.99*

Part#	RAM HD	Display	Your Price
2300C/100 SERIES			
M4221LL/A	20MB/1.1GB HD	9.5"Active Matrix	$CALL*

COMPUTOWN
NOTEBOOK COMPUTERS



TEXAS INSTRUMENTS

LOWEST GUARANTEE PRICES

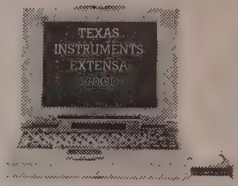
TI Extensa 510

- 100MHz Pentium® Processor
- 8 MB RAM exp to 40 MB
- 810 MB HD
- 2 PCMCIA option
- 10.4" Dual Scan Color
- Built-in GlidePoint
- 1 Year Warranty

Part# 9805747-0001

NO INTEREST FOR 90 DAYS 0% *SAME AS CASH*

$1799.99*



LOWEST GUARANTEE PRICES

TI Extensa 570CDT

- 100MHz Pentium® Processor
- 8 MB RAM exp to 40 MB
- 810 MB HD
- 2 PCMCIA option
- 11.3" Active Color
- Built-in GlidePoint
- 3 Years Warranty

Part# 9805683-0101

NO INTEREST FOR 90 DAYS 0% *SAME AS CASH*

$2949.99*

Part#	RAM HD	Display	Your Price
Extensa 570CDT(11.3"Active Color Display)			
9805683-0001	100MHz Pentium® 8MB/810HD/6XCD		$2249.99*
Extensa 570CDT(10.4"Active Color Display)			
9805684-0101	100MHz Pentium® 8MB/1.2GB/6XCD		$2949.99*

SAMSUNG

SAMSUNG SENS 810

NEW! IN STOCK

LOWEST GUARANTEE PRICES

Samsung Sens 810

- 100MHz Pentium® Processor
- 8 MB RAM EDO
- 810 MB HD
- Ergonomic split keyboard
- 11.3" Dual Scan SVGA Display
- 4X Internal CD-ROM
- 3 Years Warranty

Part# SX10088LC-4CD

$2599.99*

Part#	Description	RAM HD	Your Price
Sens 810 Series			
SX12136VT-6CD	120MHz Pentium®	8MB/1.3GB	$2899.99*

TOSHIBA

TOSHIBA 110CS

LOWEST GUARANTEE PRICES

Toshiba 110CS

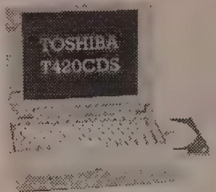
- 100MHz Pentium® Processor
- 8 MB RAM expandable to 40 MB
- 810 MB HD
- 2 PCMCIA slots(2 Type II or1 Type III)
- 800x600 SVGA
- 11.3" Dual Scan Screen

Part# PA1224U-S2A

PRICE DROPS

CALL FOR LOWEST PRICE*

Part#	RAM HD	Display	Your Price
110CT(11.3"Active Display)			
PA1224U-T2A	100MHz Pentium®	8MB/810HD	$CALL*



NO INTEREST FOR 90 DAYS 0% *SAME AS CASH*

Toshiba T420CDS

- 100MHz Pentium® Processor
- 8 MB RAM expandable to 40 MB
- 810 MB HD
- 2 PCMCIA slots(2 Type II or 1 Type III)
- 6X CD-ROM
- 11.3" Dual Scan Screen
- 16-bit Sound Blaster compatible
- External floppy drive

Part# PA1225U-S2C

$2479.99*

Part#	RAM HD	Display	Your Price
T420CDS(11.3"DSTN Display)			
PA1225U-S2A	100MHz Pentium®	8MB/810HD	$CALL*
T420CDT(11.3"TFT Active Matrix Display)			
PA1225U-T2C	100MHz Pentium®	8MB/1.2GB	$CALL*

TOSHIBA TECRA 500CDT

LOWEST GUARANTEE PRICES

Toshiba Tecra 500CDT

- 120MHz Pentium® Processor
- 16 MB RAM exp to 144 MB
- 1.2 GB HD
- 2 MB VRAM
- 12.1" TFT Active Matrix Screen
- 6x CD-ROM
- AccuPoint Mouse

Part# PA125-T2C

NO INTEREST FOR 90 DAYS 0% *SAME AS CASH*

$4599.99*

TOSHIBA PORTEGE 650CT

NO INTEREST FOR 90 DAYS 0% *SAME AS CASH*

Toshiba Portege 650CT

- 133MHz Pentium® Processor
- 16 MB RAM exp to 80 MB
- 1.3GB HD
- 2 PCMCIA slots(2 Type II or 1 Type III)
- 11.3" TFT Active Matrix Screen
- 64-bit Graphics Acceleration
- Integrated AccuPoint™
- 3 Years Warranty

Part# PA1124U-T9A

CALL FOR BEST PRICES*

Part#	Description	RAM HD	Your Price
T730CDT(12.1"Active Display)			
PA1228U-T2C	150MHz Pentium®	16MB/2.0GB	$CALL*

MOUNTAIN VIEW ONLY!

NEW

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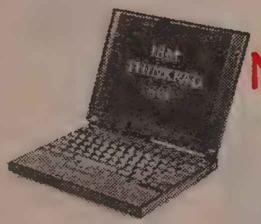
Authorized Advanced Products Dealer

IBM® ThinkPad® 365XD
- 120MHz Pentium® Processor
- 8 MB RAM expandable to 64 MB
- 1.1 GB HD
- 2 PCMCIA slots
- 10.4" TFT Screen
- 1 Year Warranty

NO INTEREST FOR 90 DAYS 0% SAME AS CASH

Part# 2625DEF
$2499.99*

Part#	RAM HD	Display	Your Price
365X(10.4"TFT Display)			
2625TET	100MHz Pentium®	8MB/810HD	$CALL*
365XD(11.3"Dual Scan Display)			
2625W9G	100MHz Pentium®	8MB/1.1GB	$2499.99*



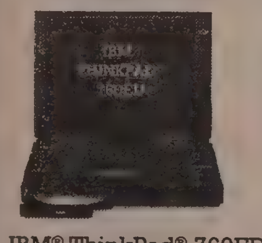
NEW

NO INTEREST FOR 90 DAYS 0% SAME AS CASH

IBM® ThinkPad® 560
- 100MHz Pentium® Processor
- 8 MB RAM expandable to 40 MB
- 810 MB HD
- 2PCMCIA slots
- 12.1" Dual Scan Screen
- 1 Year Warranty

Part# 264050A
CALL FOR LATEST PRICES*

Part#	RAM HD	Display	Your Price
560(11.3"Dual Scan Display)			
264050A	100MHz Pentium®	8MB/810HD	$CALL*
560(12.1"Active Color Display)			
2640E0A	120MHz Pentium®	8MB/810HD	$CALL*
2640FOE	133MHz Pentium®	8MB/1.0 GB	$CALL*



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Authorized Advanced Products Dealer

IBM® ThinkPad® 760ED
- 133MHz Pentium® Processor
- 16 MB RAM exp to 72 MB
- 1.2 GB HD
- 4X CD
- 28.8/14.4 Fax/Modem
- 12.1" TFT Screen
- 3 Years Warranty

LOWEST GUARANTEE PRICES

Part# 9546U3A
$5999.99*

Part#	RAM HD	Display	Your Price
760ELD(12.1"Active Matrix Display)			
9547U3F	100MHz Pentium®	8MB/810 HD	$4599.99*
760EL(12.1"Active Matrix Display)			
9547U3H	133MHz Pentium®	16MB/1.1GB	$CALL*
9547U4F	120MHz Pentium®	8MB/1.1GB	$CALL*
760E(12.1"Active Matrix Display)			
9546U3B	120MHz Pentium®	8MB/1.2GB	$CALL*

COMPAQ

NEW

IN STOCK

Compaq Armada 1120T
- 100MHz Pentium® Processor
- 8 MB RAM exp to 24 MB
- 810 GB HD
- PCMCIA slots
- 10.4" Active Matrix Display
- 3 Years Warranty

NO INTEREST FOR 90 DAYS 0% SAME AS CASH

Part# 262500-003
CALL FOR LATEST PRICES*

Compaq Armada 4130T
- 133MHz Pentium® Processor
- 8 MB RAM exp to 40 MB
- 1.3 GB HD
- PCMCIA slots
- Lithium Ion battery
- Optical Trackball
- 11.3" Dual Scan Color Display
- 3 Years Warranty

LOWEST GUARANTEE PRICES

Part# 228850-007
CALL FOR LATEST PRICES*

Compaq LTE 5380
- 133MHz Pentium® Processor
- 16 MB RAM exp to 72 MB
- 2.1 GB HD
- 4XCD optional
- 2 PCMCIA slots
- 12.1" Active Color Display
- TrackPoint Mouse
- 3 Years Warranty

LOWEST GUARANTEE PRICES

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Part# 242300-009
SPECIAL PRICE*

Part#	RAM HD	Display	Your Price
LTE 5280(11.3"Active Color Display)			
242150-008	120MHz Pentium®	16MB/1.3GB	$CALL*
LTE 5300(12.1"Active Color Display)			
241900-008	133MHz Pentium®	16MB/1.35GB	$CALL*

digital™

Digital Highnote Ultra II Subnotebook
- 133 MHz Pentium® Processor
- 16 MB RAM
- 1.3GB HD
- 16-bit Audio
- 11.3" Active Matrix Display
- 3 Years Warranty

NO INTEREST FOR 90 DAYS 0% SAME AS CASH

Part# FR-P8EWG-AA
$4399.99*

FUJITSU
PC Corporation

Fujitsu Monte Carlo Notebook
- 133 MHz Pentium® Processor
- 16 MB RAM
- 1 GB HD
- 2 MB Video RAM 800x600
- 6X CD-ROM Drive
- 12.1" Active Matrix Display
- 3 Years Warranty

NO INTEREST FOR 90 DAYS 0% SAME AS CASH

Part# FPC070011
$4299.99*

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HP Omnibook 800CT Notebook
- 133 MHz Pentium® Processor
- 16 MB RAM exp to 40 MB
- 1.4 GB HD
- Pop-up mouse
- 10.4" Active Matrix Display
- 3 Years Warranty

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Part# F1175A#ABA
$4699.99*

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Upon salesperson's verifications

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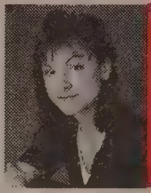

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Dec 1st 10am - 1pm

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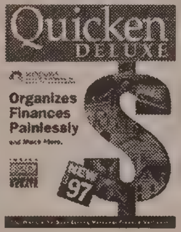

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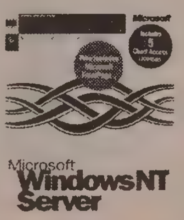

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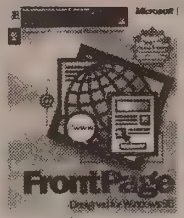

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Windows 3.1
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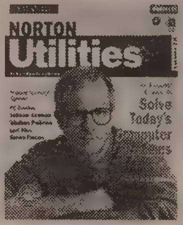

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Norton Utilities™
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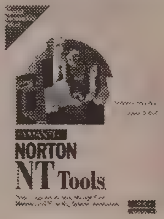

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Norton NT Tools
for Windows NT
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Symantec
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for Windows®95/
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for Windows®95
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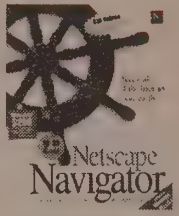

NetScape
Netscape Navigator™
for Windows®95
Version 3.0
CD-ROM
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NetScape
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Gold
for Windows®95
Version 3.1
CD-ROM
$69.99

MetaTools™
Kai's Power GOO
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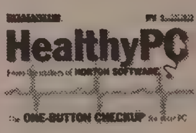

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Pinnacle Systems Inc.
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COMPUTOWN
TEKTRONIX® COLOR PRINTERS & SUPPLIES

Tektronix® AUTHORIZED DEALER

Adobe PostScript

Mac OS

EPA POLLUTION PREVENTER

TEKTRONIX® PHASER™ 550

Color Laser Printer

NEW

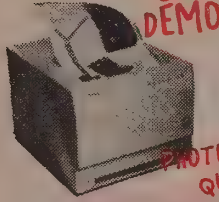
- 1200 dpi or 600 dpi
- 5 ppm (color), 14 ppm(b/w)
- 8 MB RAM exp to 72 MB
- 32 MHz RISC processor
- Adobe PostScript™ level 2 & HP-GL
- Optional Ethernet, TCP/IP, Token ring support
- Letter & legal size paper

ON DEMO

TEKTRONIX® PHASER™ 440

Dye-Sublimation Printer

ON DEMO



- 300 dpi continuous tone
- 16 MB RAM exp to 64MB
- Adobe PostScript™ level 2
- 24MHz RISC processor
- Letter & Letter Extra Size
- Optional Ethernet

PHOTOGRAPHIC QUALITY

TEKTRONIX® PHASER™ 340P

ON DEMO

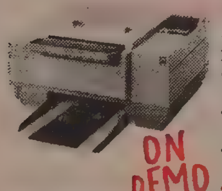
Color Printer

- 600x300 dpi, 69 fonts
- 32 MHz AMD 29030 RISC processor
- 24 MB RAM
- Adobe PostScript™ level 2
- Job pipeline feature
- Plain paper Phase-change printer

IN STOCK

TEKTRONIX® PHASER™ 300i

Phase Change Printer



- 300 dpi plain paper Phase-change
- Adobe PostScript™ Level 2
- 24 MHz AMD 29000 RISC processor
- 10 MB expandable to 22 MB
- 4 x 6" to 12 x 18" media sizes
- Maximum print area 11.6 x17.5"

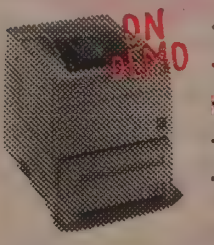
ON DEMO

TEKTRONIX® PHASER™ 240i

Thermal Wax Printer

IN STOCK

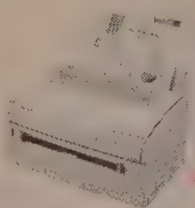
ON DEMO



- 300 dpi exp to 600x300 dpi
- Speed: 2 pages per minute
- Adobe PostScript™ Level 2
- AMD 29000 RISC processor
- 5 MB expandable to 21 MB

*LOW PRICE GUARANTEE at time of purchase. This offer applies to a non-expired ad & in-stock items at an authorized retailer and Computown™ on exact same item in retail box.

OKIDATA



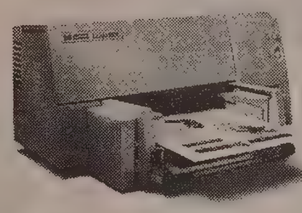
Okidata Okipage 4W Printer

- Laser quality printer
- 4 ppm
- 5 years limited warranty on LED printhead

Part# C161001

$299.99

HEWLETT PACKARD Authorized Reseller



HP Deskjet 870CXi Printer

- 8 PPM
- 600 dpi
- Mac & PC compatible
- 1 Year Warranty

Part# C4555A

$496.99

LOWEST GUARANTEE PRICES

Part#	Description	Resolution	Your Price
Deskjet for IBM® compatible			
C2633A	DeskJet 320CM	600x600	$349.99
C2642A	DeskJet 400	600x600	$194.99
C4549A	DeskJet 680C	600x600	$299.99
C4531A	DeskJet 820CXi	600x600	$396.99
C3540A	DeskJet 1600C	600x600	$1299.99
C3541A	DeskJet 1600CM	600x600	$1869.99

HEWLETT® PACKARD

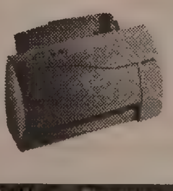
HP DeskJet 690C Printer

- 5 PPM B/W
- 600 x 600 dpi
- 3 Year Warranty

Part# C4526A

$349.99

LEXMARK



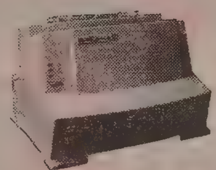
Lexmark Color Jetprinter 1020

- Vivid color and crisp text printingat 600x300 dpi
- 2ppm monochrome
- 2-4 pp, color

Part# 1078001

$159.99

Part#	Description	Resolution	Your Price
Lexmark InkJet			
4090001	Color Jet 2070	600x600	$349.99
13A1000	Color Jet 2050	600x600	$259.99



HP LaserJet 5L/FS Printer

*After Rebate

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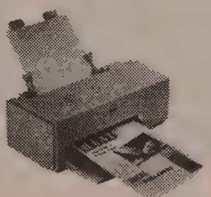
- 600 dpi
- 100 sheet paper tray
- 26 scalable fonts

Part# C3941A

$449.99*

Part#	Description	Resolution	Your Price
LaserJet for IBM® compatible			
C3980A	LaserJet 6P	600dpi	$796.99
C3941A	LaserJet 5L/FS	600dpi	$449.99
C3916A	LaserJet 5	600dpi	$1296.99
C3141A	LaserJet 4V	600dpi	$1889.99
LaserJet for Multiple Platform			
C3917A	LaserJet 5M	600dpi	$1796.99
C3982A	LaserJet 6MP	600dpi	$949.99
C3142A	LaserJet 4MV	600dpi	$2689.99
C3961A	Color LaserJet 5	1200dpi	$5689.99
C3962A	Color LaserJet 5M	1200dpi	$6989.99

EPSON



Stylus Color 500 Inkjet Printer

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- Fast text and color printing

Part# C198011

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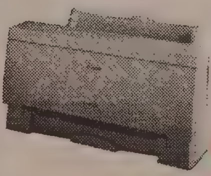

Part# Q30-1770-US1

$189.99

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Canon Printers			
Q30-1320-325	BJC-30	720x360	$269.99
Q30-1770-USI	BJC-240	720x360	$189.99
Q30-1960-USI	BJC-4200	720x360	$279.99
Q30-1772-USI	BJC-4550	720x360	$449.99
Q30-1612-USI	BJC-610	720x720	$419.99

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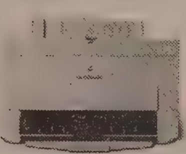

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- 3 - 4PPM
- 360x360 dpi
- TrueType® fonts
- High speed serial

Part# M4236LL/A

$369.99

Part#	Description	Resolution	Your Price
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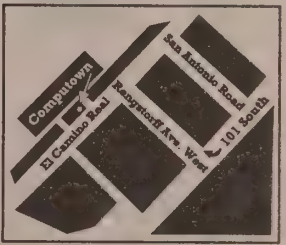

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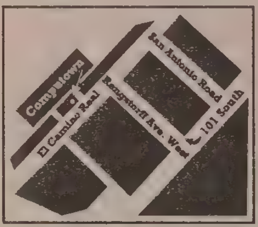

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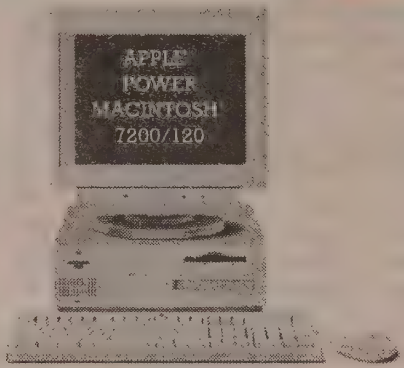

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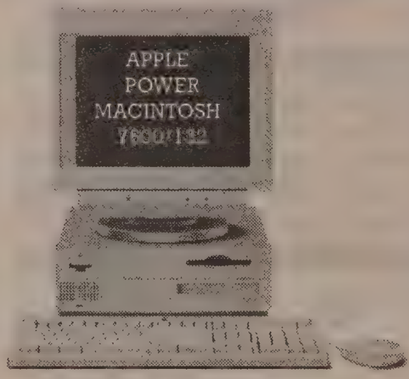

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- 8X CD-ROM Drive
- 2MB VRAM expandable to 4 MB
- 24-bit Video input/output

Part#M5347LL/A

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Part#	Description	RAM HD	Your Price
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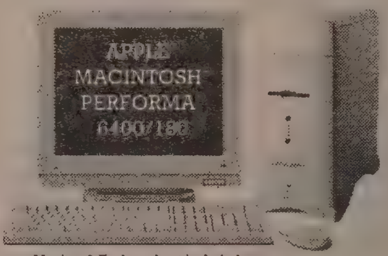

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Never Get Lost Again

Affordable GPS Almost Ready For Prime Time

By Al Miller

"Where the hell are we?" the women were asking. We had been on a compass course for about twelve hours—in the fog. The last land we saw was the southern tip of the island of San Clemente. Catalina should have been visible by now, but of course parts of our own boat were hardly visible. We were either between Catalina and LA, or between Catalina and Hawaii.

We'll never face this dilemma again—never have to stop for directions, never be lost in the fog or smog. Not with the new toys that are becoming available and affordable.

How It Works

GPS stands for "global positioning system," and represents the considerable investment of the US military. This $13 billion system is a constellation of twenty-four satellites (twenty-one active and three spares), each transmitting precise time and location information from their orbits about 12,000 miles above the earth. There, they revolve around the earth in 12-hour orbits as the earth rotates beneath them.

If you know where the satellites are, the time information will tell you how far away from you each is, since the radio signals take a precise amount of time to get from the satellite to your receiver. This works similarly to the triangulation technique that's been used for location for a long time: If I know that I'm 2000 miles from Denver and 350 miles from LA, then I know that I'm either near San Francisco or Guaymas. If I add that I'm 400 miles from Boise, I can be pretty sure that I'm near San Francisco, not Guaymas.

Not only can GPS satellites tell me that I'm in San Francisco, they can confirm that I'm on the bike trail over San Pedro mountain at an elevation of 924 feet, moving southwest at 3.8 mph.

The GPS satellites give the same kind of information, but with a potential accuracy of 50-100 feet. Not only can it tell me that I'm in San Francisco, but it can confirm that I'm on the bike trail over San Pedro mountain at an elevation of 924 feet, moving southwest at 3.8 mph. Yes, with four good satellite signals, the GPS will also calculate your altitude above sea level and, by comparing successive readings, calculate your speed and direction.

Of course, just to spoil things, the military has detuned the system for our use—to keep Saddam Hussein from dropping a Scud missile on the Golden Gate Bridge. Position and time accuracy that should be better than 75-100 feet and 100 nanoseconds are degraded to about 300 feet horizontally, 500 feet vertically and 300 nanoseconds of time. (This may have made sense in the beginning, but the Russians have a nearly identical system that isn't de-tuned. New receivers will probably use the combined system.) For now, it's plenty accurate enough to tell you whether you're at Pine and Montgomery or Bush and Powell—if you happen to know their latitude and longitude. If you really need more

Never Get Lost *continued...*

accuracy, you can get a differential receiver that uses a ground base station to transmit correction factors.

Affordable GPS For Your Computer

The ultimate, however, is to hook the GPS up to your portable computer. With the help of a good map database and GPS capable software, this amazing toy can show your position on the map, down to the street level of detail.

Agent 007 has had this technology for many years, so we all know how it works. But now you can have it— and it's pretty cheap. For a street price of about $300 (not including your existing laptop), you can buy all the software and hardware you need. The GPS simply hooks into your serial port and the entire USA street map database fits on one CD.

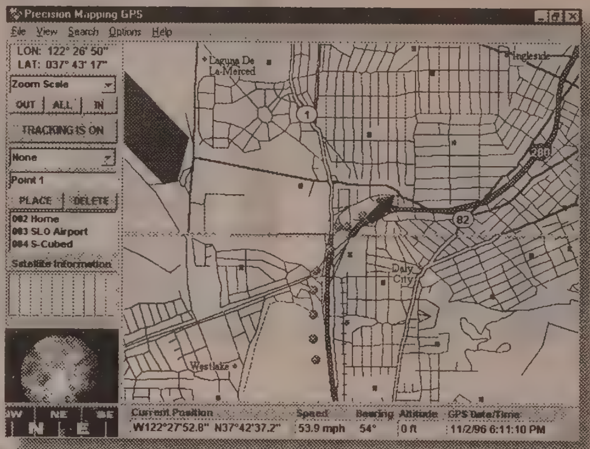
Don't have a CD-ROM drive on your laptop? You can just load the states that you need onto your hard disk. California, the biggest I presume, takes about 40MB.

The figure below shows the results of my Magellan GPS 4000 coupled with Precision Mapping GPS. The dots show the last few fixes and the arrow shows the current location and direction.

A Perfect System?

Nope, not yet, but the technology is really moving fast. Prices are coming down and the receivers are getting better.

Just a few years ago, you couldn't touch this technology for less than thousands of dollars. After all, you're asking a battery-operated, hand-held radio with a lousy antenna to receive microwave signals simultaneously from flea- powered satellites. Just as they are absorbed in your microwave oven, the microwave signals are readily absorbed by the water and other stuff in trees. (The satellites broadcast at 1575.42MHz; your microwave oven pops your corn at 2400MHz.)



LON: 122° 26' 50"
LAT: 037° 43' 17"

Point 1

002 Home
003 SLO Airport
004 S-Cubed

Current Position: W122°27'52.8" N37°42'37.2"
Speed: 53.9 mph
Bearing: 54°
Altitude: 0 ft
GPS Date/Time: 11/2/96 6:11:10 PM

You need a pretty un-obstructed view of most of the sky to get a good fix. I can't get my system to operate in the house. I'm not sure if being on a steep hillside is the culprit, or simply the shielding from the roof. Outside, on the deck, I can get it to access enough satellites for

continued on page 90

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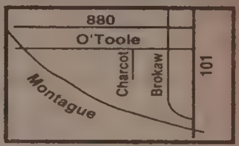

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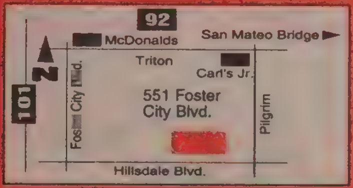

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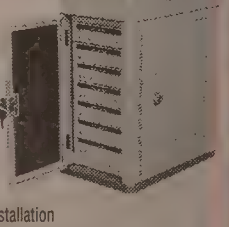

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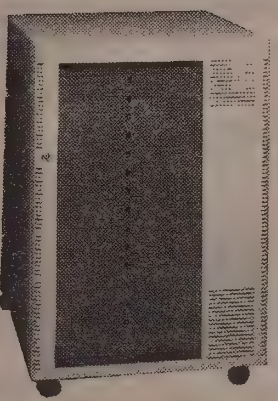

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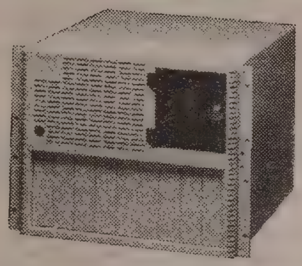

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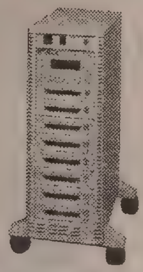

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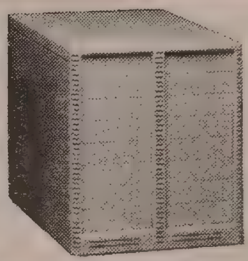

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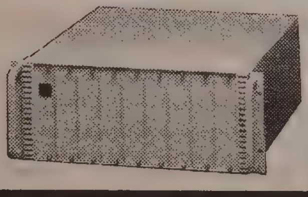

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Never Get Lost *continued from page 86*

a fix. Of course, I seldom get lost in my house or on my deck, so these limitations are not too serious.

My GPS does a good job on the dashboard of the car or plane, but forget it in the passenger compartment of an airplane or even under heavy tree cover.

Is It Time To Buy?

Everything in the high-tech field is obsolete by the time it gets to market, let alone when you decide to buy it. I paid $650 for my first floppy drive and laughed when they said the going price would be $50 within a few years.

Buying and watching the price fall is what high-tech is all about. I bought and am having a great time with my GPS. If you can stand to wait, you'll get a better product at a lower price, but you'll miss out. If you have any practical application for it, buy it now! Sell or give it away next year and buy a better one. You'll never have to stop for directions again.

I'll pay for my unit in saved gas alone. I won't have to drive around until I'm on empty to have an excuse to stop for directions.

> The ultimate, however, is to hook the GPS up to your portable computer. With the help of a good map database and GPS capable software, this amazing toy can show your position on the map, down to the street level of detail.

If waiting for the next technology advance and doing without it today doesn't make you crazy, you should wait. You'll get a cheaper/better unit next year—and after all, that 6MHz AT you bought used ten years ago runs WordStar 3.3 just fine.

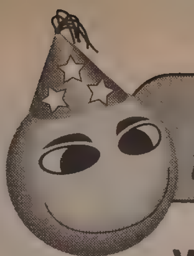
What's Available?

GPS receivers are made by a number of companies and there are even OEM chipsets and PCMCIA cards available. The main players currently are Garmin, Magellan, Eagle and Trimble. If you want to follow the current battle between the top selling units, check out the discussion in the *sci.geo.satellite-nav* newsgroup. It's mostly Garmin vs. Magellan.

Garmin makes some of the most popular units; the Garmin GPS 38, GPS 40 or GPS 45XL are some of the least expensive options. With a street price of about $150, the GPS 38 is the least expensive GPS, but lacks an option for external antenna. The GPS 40 and 45XL are more popular models with more bells and whistles, but cost about $50 or $100 more.

Magellan was the first in this business and still commands a lot of attention. They took my money for their GPS 4000 model and, as you have probably noticed, I'm pretty happy with it. I paid about $250 for it. For a few more bucks you can get more features in the Trailblazer or Meridian XL models, but these also cost a bit of battery life. The GPS

continued on page 268



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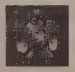

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Mamma Mia! Mario Goes 3-D

SGI-Nintendo Collaboration Produces A Hit

By Mary Eisenhart

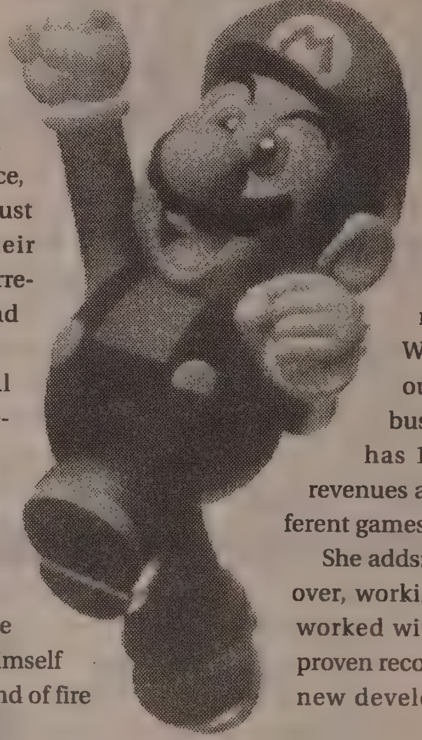
Already playing to sellout crowds in Japan and the US, the new Nintendo 64 looks to be one of the stars of this year's holiday season, with availability the biggest obstacle to colossal sales figures. The first result of a collaboration between the gaming company and Silicon Graphics, the new system brings near-VR immersive environments to your TV set and offers a tantalizing look at the migration of high-end graphics technology to the home.

Selling (when you can find one) for just under $200, the Nintendo 64 uses RISC processor technology developed by SGI's subsidiary MIPS. The R4300 CPU and Reality Co-processor allow unprecedented freedom of movement in complex 3-D gaming environments. While the graphics in Paradigm's Pilot Wings flight simulator (one of two games currently available for the platform) are noticeably simpler and jaggier than their counterparts in SGI's high-end Reality Engine-based Visionarium environment and multimillion-dollar military simulators, the game is no less instantaneously responsive.

Says Jim Foran, SGI's director of engineering for the Nintendo project: "The graphics technology is the same type we've been putting into our workstations for some years; it's been scaled-down to drive the home television at a consumer price point by using the most advanced semiconductor technology in the world.

"The technology can evolve very rapidly. On a home television monitor, there's a limit to how many dots on screen we're able to exploit, but our object was to bring as much of the experience of the Reality Engine into the product as possible, and I think we've done a pretty good job of it."

Quality Experience, Wide Appeal



While there are currently only two titles available for the system—Pilot Wings and Super Mario 64, with Wave Race, a jet-ski themed adventure, just appearing in Japan—their immersive quality is proving irresistible to veteran gamers and long-time game-resisters alike.

The three-dimensional Mario has entirely lost the tape-loop quality of previous generations. He has a full range of movements, a complex world in which to maneuver, and no matter what dire catastrophe befalls him, the indomitable little guy dusts himself off and sets off for another round of fire pits, ill-tempered creatures, and geometric shapes with bad attitudes.

Pilot Wings' designers aren't a gaming house at all—historically they've done military-class flight simulators, but defense-spending cuts encouraged them to try new markets, with outstanding results.

The relatively low number of titles is no accident, says Perrin Kaplan, Nintendo America's director of corporate affairs: "We're being really selective. When you've got a game like Super Mario 64, where it sells at a near 1-1 with hardware, that's mega, and we want all our games to be in that category.

"For the Nintendo 64, our mantra is quality vs. quantity. We have far fewer games than our competitors, but real blockbuster potential. Sony PlayStation has 130 games, and 50% of their revenues are based on the sale of ten different games."

She adds: "We've been looking the world over, working with developers who have worked with us in the past who have a proven record, and also trying to find some new developers." The quest has led to

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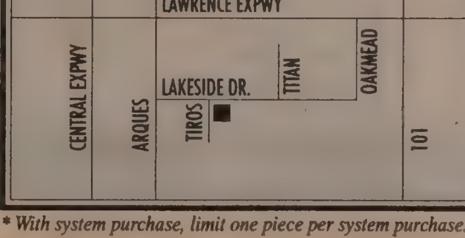

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Mario Goes 3-D *continued...*

some interesting works in progress, including Ken Griffey Baseball, currently in the works at San Diego's Angel Studio, which previously worked on Peter Gabriel's videos and the movie *Lawnmower Man.*

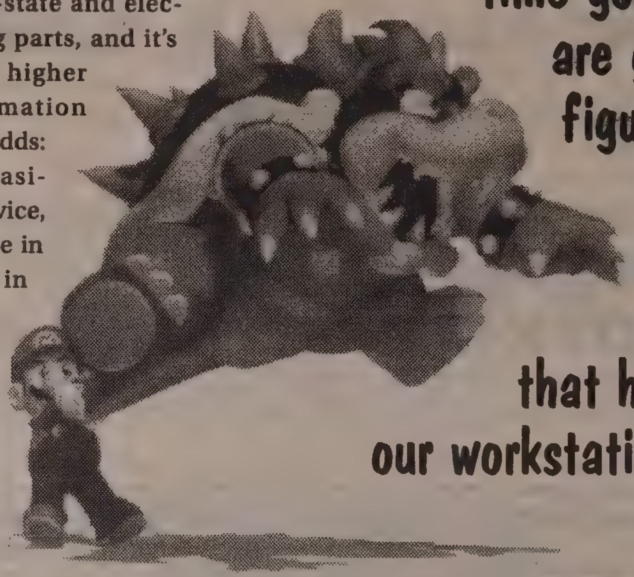
"For us," she says, "the bottom line is the game. People don't go to the movie theater because of the theater, they go because of the movie that's being played.

"We're trying to find the best developers in the world. It's a brand-new technology; a lot of developers aren't able to develop for it—they don't know how to yet. It takes immense skill. So for Nintendo the biggest challenge is making sure to find and train developers who have a great creative idea in their mind, and finding a way to apply it technically to our system, so the outcome is Super Mario 64."

Going Diskless

Unlike PC-based games, which these days tend to utilize a combination of your hard drive and CD-ROM, Nintendo 64 software comes on silicon-based cartridges, a far cry from the tape cartridges of yesteryear. This allows for blazingly fast play.

Foran explains: "The silicon-based storage device has the ability to be read very quickly; it's entirely solid-state and electronic, no moving parts, and it's capable of much higher rates of information transfer." Kaplan adds: "CD-ROMs are basically a storage device, and there's lag time in transferring data in any kind of game. The silicon-based cartridge allows for really smooth movement—there's no load time."



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Mario Goes 3-D *continued...*

Net? Not Yet

Since SGI's technology is also used in products like the Sony PlayStation and WebTV, which at least hint at a future of interactive online gaming, it's natural to ask about Nintendo's plans for, say, interactive Net-based aerial dogfights.

However, there's likely to be a bit of a wait. Says Kaplan: "Nintendo's main focus, and the thing we've had success on, is giving the player a new gaming experience. Until technology allows for people to have online gaming in a truly instantaneous way that brings something brand-new, that they can't get on a regular console at home, we won't be entering that market. But we're examining all angles of it all the time."

She notes that for some time Nintendo systems have had more ports than they actually use, just in case somebody comes up with some cool new application, and that over the long life of a platform—as she points out, the '80s-vintage NES system still sells over 100,000 units a year—applications emerge that were undreamed of at its inception. "We think Nintendo 64 is going to have a really healthy life-cycle, which is important to the average consumer." So, in the long term, online gaming certainly isn't out of the question.

> **Nintendo's Perrin Kaplan: "For us, the bottom line is the game. People don't go to the movie theater because of the theater, they go because of the movie that's being played."**

Foran adds: "This is only the beginning of what people will do with this platform. This is a complete leap in technology, and as time goes by people are going to figure out how to get more and more out of it—that happens with our workstations. We're going to see a lot of games produced, and they're going to keep getting better and better." ■

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Top Ten Things You Need To Know To Be A CYBER GEEK

Even If You Just Bought Your First Computer

By Kevin Savetz

New to computers and wondering how long it takes to become a savvy, computer-literate cyber geek like your friends, spouse, or co-workers? Not long—the following items will start you on the path from being a mere computer user to becoming a full-fledged geek.

Being a geek is its own reward: as a geek, you will be able to understand what goes on inside your computer, engage in those formerly cryptic conversations about serial ports, megabytes and RAM allocation, and be able to find help for your nagging computer problems—and help others solve theirs.

1. If Something Goes Wrong, It's Not (Necessarily) Your Fault

Although it is frustrating when things don't work the way they're supposed to—especially when they worked just fine yesterday—try to avoid the temptation to reinstall your operating system, futz with your config files, defragment your hard disk, and wave a dead chicken over the computer in the hopes of remedying the problem. If your application crashes, doesn't work right, or otherwise acts in an unseemly manner, simply reboot the computer and try again. Perhaps it has been awake for too long, maybe it's feeling peaked. Start with the basics when solving a problem, never assume the worst.

If what you're doing involves someone else, don't assume the problem is on your end. (Sure, it may be, but a geek isn't afraid to share the blame.) Case in point: a caller to the technical support line of an online service can't get online today. "I reinstalled the software and switched COM ports and changed all my IRQs, but I still can't log on!" The reply: the online service has been down all afternoon; *no one* can log on. There goes a lovely summer afternoon, needlessly wasted.

2. Know Everything About Your Computer

This bit of geekiness comes in handy very often—and as a bonus, is a great way to impress other geeks. By knowing every detail about your system, you will make software configuration, technical support, and future upgrades simpler. Grab your computer's manual, and turn to the back. Somewhere in fine print you'll find a list of specifications. Learn them! What's the processor type and speed? How much RAM do you have? How much hard disk space? How fast is that CD-ROM drive?

The obscenely geeky take this advice to the next level: they know the type of bus on their system, the transfer rate of the hard disk, and the configuration of the IRQs.

This technical mumbo-jumbo may seem like brain clutter today, but it will become useful some day soon when a program, salesman or friend asks about the finer points of your computer's innards.

3. Know Where To Find A Bargain On Computer Stuff

I won't tell you that you need a killer system to be a cyber geek—quite the contrary, one's propensity for geekdom has very little to do with the amount of money one can afford to blow on computer toys—uh, accessories.

But when a geek does upgrade his computer, he needs to know where to find the best deals. If his town has a gizmo outlet, he will be casing the joint at the grand opening. If the local computer stores are overpriced, he is content in the knowledge that there is a waist-high stack of computer-oriented mail order catalogs back home. And he knows in his heart that the best ads for cheap stuff aren't in the slick, glossy magazines, they're in the thick ones that are printed on newsprint (like *MicroTimes*!) He scans the classified ads, newsgroups and flea markets for deals. He knows that one person's trashed parts is another's dream come true.

4. Know What's On The Other Side Of That Modem

Most hardcore geeks use a modem, but you aren't truly a geek until you understand what

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you're connected to on the other side of that modem. Three main places you may connect to are the Internet, an online service, and a bulletin board system. These are three distinct entities.

First, let's look at a commercial online service, like America Online (AOL). AOL is a service that runs primarily on several powerful computers in Virginia. AOL provides information from a wide variety of sources—news, chat rooms, a reference desk, bulletin boards and so on. The America Online company runs the show—it decides what information to feature, and organizes the information in a (hopefully) logical manner.

On the other hand, the Internet is not an online service, it is a computer network. It is not centered in any one place—the computers that comprise the Internet are literally all over the world. The Internet is not run by any one company or person; every company, organization and individual that has a computer connected to the Internet controls their own equipment and works cooperatively to assure that the network as a whole runs smoothly.

A bulletin board system (BBS) is a small operation—perhaps a single computer run by an individual. A BBS can have the same sort information as an online service, but on a much smaller scale.

To confuse the matter a little: the Internet, online services and BBSes can work together. For instance, you can access the Internet

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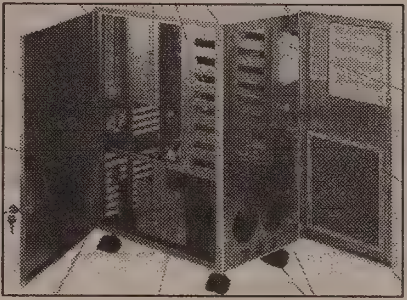

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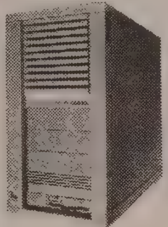

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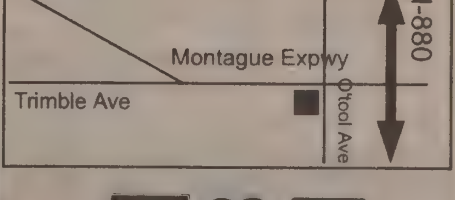

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Cyber Geek *continued...*

through America Online. Conversely, Internet users can access AOL by sending electronic mail to AOL members, and visiting members' Web pages.

5. Beta Software Is Evil

Only a couple of years ago, it was a privilege to be allowed to "beta test" software—that is, to receive a pre-release version of a program, to check it for bugs and try out all the new features. Beta testing meant you could be the first on your block to try new software. You had a reasonable assurance that the program worked well enough, and probably wouldn't crash your system. The programs were almost done—"feature-complete"—you just needed to look for bugs.

That has all changed. Today, many software companies have embraced the idea of "public betas," which means a company will put their half-baked program on the Internet or an online service and allow a few hundred thousand people to download it. These programs are not "feature complete"; in fact, they're nowhere near ready for prime time. They crash systems left and right, and they have more bugs than an Ant Farm™. Two days later, the company will release a marginally better version of the program online, and the frenzy will start again.

A cyber geek is certainly interested in the latest tools and toys for his computer, but most geeks aren't willing to trust embryonic software from a company that has no qualms about releasing a program that is not ready for the light of day.

Some geeks take this attitude a step further: "Never buy version 1.0 of anything," they say. Many jaded users believe that the first version of any software product will be so buggy as to be useless, and that you should wait until the first update is released. This geek isn't that cynical, but I do make sure there is a money-back guarantee on all the software I buy—especially if it is version 1.0.

6. Be A Comfortable Geek

Your computer and the space around it should be comfortable — invest in a comfortable chair, an ergonomic keyboard and good lighting for your computer area. Also, learn to touch type... it's easier on your back and neck when you look across at the screen rather than down at the keyboard (and it's another good way to impress your fellow geeks.)

Being a comfortable geek goes beyond good ergonomics and lighting. Populate your workspace with the things that make you happy. For some, this might mean pictures of your family or pets. For me, it means a variety of toys which I can play with while geeking out: a Koosh ball, a Wheel-O, a Figit and a Magic 8-Ball clutter my desk. (What do I do with these things? I "frob" them—a geek term that means "aimless manipulation of an object, just for fun.")

7. Remember: Everyone Thinks He Is An Expert

Perhaps I have been jaded by years of working around lots of other geeks, but one thing became clear early on: everyone seems to think he is an expert. Many of the people I've dealt with are clearly knowledgeable in their fields, but some of these so-called

continued on page 274

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The Web: It's Going

To Laura Zurawski it was a labor of love.

She wanted to find a way to express her feelings about her two adopted cats, Vector and Daja, while at the same time returning something to the growing online community of cat lovers.

So she put technology to work, using her computer skills to create a home page on the World Wide Web for her cats, where other people connected to the Internet could admire the feline duo. In addition, people who logged on to her Web page could also find links to other information, such as cat care, health tips and feline-related entertainment and literature.

"From my own experience, I know that I love to meet other cat owners and their cats, because I feel I have a common bond with them. Perhaps that is why people like to put their cats on the Web, to seek out other cat owners and their cats, and to tell those other cat people about their very own pride and joy," says Zurawski, a graduate student at the University of Illinois at Urbana-Champaign.

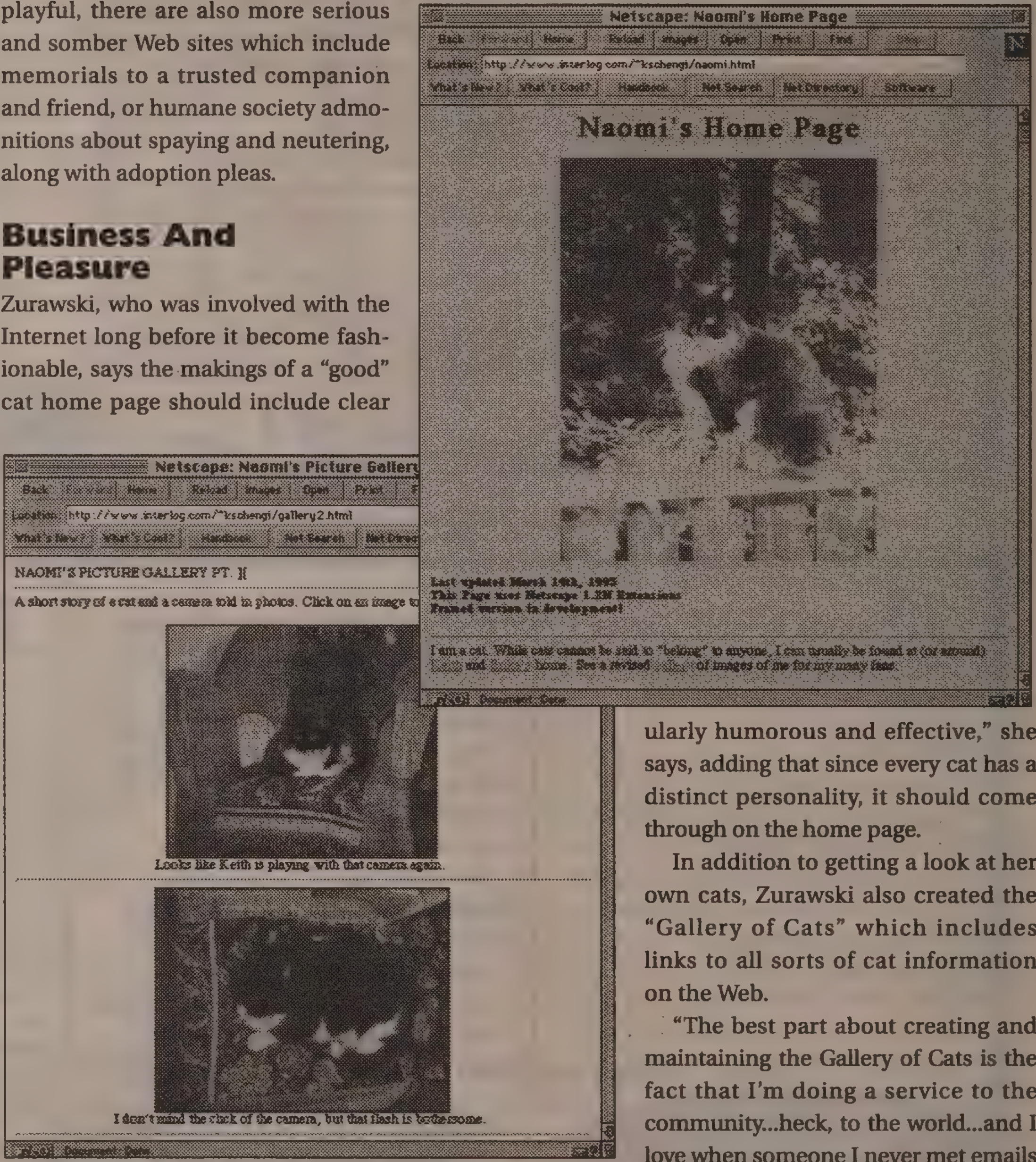
Zurawski is part of a growing number of cat owners who have created World Wide Web home pages featuring their feline companions. These pages usually include pictures of the cat or cats; some narrative describing their likes and dislikes, who they live with and how they spend their time. Many of the home pages are written in the first person—from the cat's perspective. Even President Clinton's cat, Socks, is on the White House home page.

Most cat pages are created by people who simply want to show off their cat, while some seek to promote a business. But at the heart of any home page is the desire to share and exchange information.

While most home pages feature good news and are generally light-hearted, humorous and playful, there are also more serious and somber Web sites which include memorials to a trusted companion and friend, or humane society admonitions about spaying and neutering, along with adoption pleas.

Business And Pleasure

Zurawski, who was involved with the Internet long before it become fashionable, says the makings of a "good" cat home page should include clear pictures, some vital statistics (such as age, habits) and a few cute or interesting stories.


Netscape: Naomi's Picture Gallery
Back
Forward
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What's New?
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Handbook
Net Search
Net Direc
Document: Done

NAOMI'S PICTURE GALLERY PT. II

A short story of a cat and a camera told in photos. Click on an image t

Looks like Keith is playing with that camera again.

I don't mind the click of the camera, but that flash is bothersome.

Netscape: Naomi's Home Page
Back
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Home
Reload
Images
Open
Print
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Stop
Location: http://www.interlog.com/~kschengi/naomi.html
What's New?
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Handbook
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Net Directory
Software
Document: Done

Naomi's Home Page

Last updated March 14th, 1995
This Page uses Netscape 1.1N Extensions
Framed version in development!

I am a cat. While cats cannot be said to "belong" to anyone, I can usually be found at (or around) and home. See a revised of images of me for my many fans.

"I've seen pages that were written by the cat (told in the first person) and I find those particularly humorous and effective," she says, adding that since every cat has a distinct personality, it should come through on the home page.

In addition to getting a look at her own cats, Zurawski also created the "Gallery of Cats" which includes links to all sorts of cat information on the Web.

"The best part about creating and maintaining the Gallery of Cats is the fact that I'm doing a service to the community...heck, to the world...and I love when someone I never met emails me and praises my Web site," said Zurawski.

Geoffrey Kleinman, a technical sales/account manager in Beaverton, OR, decided to create a cat home page as way to learn HTML. He said with so many Web sites dealing with computers, technology and business, there's a need to have home pages that are more friendly, warm and relaxing.

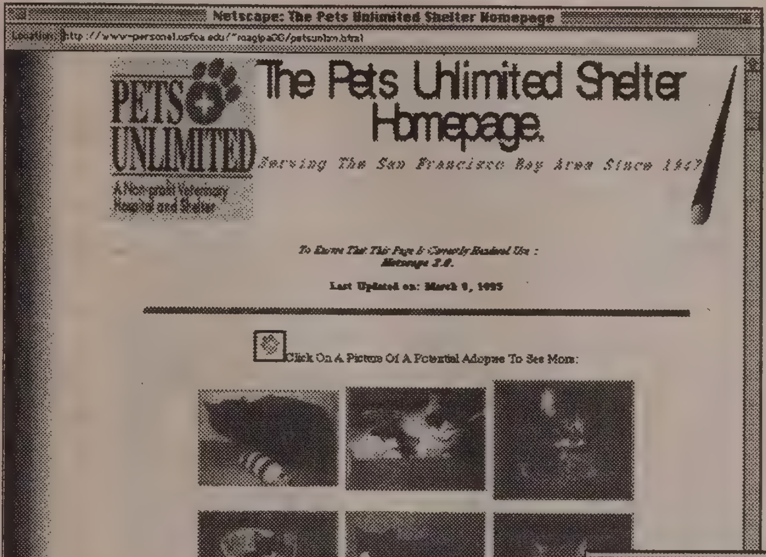
"As I was sitting at my computer pondering the subject, I saw Billie, my cat, sitting on the stairs and looking out the window in almost meditative state. It hit me right then and there—'Zen Cat!'" he recalls.

"I think a cat home page is an expression of the individuality of a cat. By giving them their own page we are saying that they have unique personalities. It is also an enlightening experience to sit down and actually write or type how we feel about our cats. It's one thing to feel it, it's another to put it into word and pictures for the rest of the world." Gayle Hunter, who created a home page called Hunters Glen Cattery, breeds American Curls and Birmans. Creating a home page would be a good way to promote the business and also link to other curl breeders.

"I wanted to show my breeding cats, (right now, mostly my Curls) as well as announce litters and show news. My home page is geared toward other breeders, but since I have an email address in there as well, I'll happily answer questions from people looking for information on my breeds or cats in general," says Hunter, who lives in St. Paul, MN with her husband Doug.

Keith Schegili-Robe, a technical writer who lives in Toronto, Canada, said he created a home page for his cat Naomi, after he created home pages for himself and his wife.

"I find that people are interested in the personalities of other people's cats, and like to read anecdotes that neatly encapsulate the cat's personality. I try to do that on my page. I am also interested in reporting the responses Naomi's Web page gets, so I like to tell people about that as well," he said.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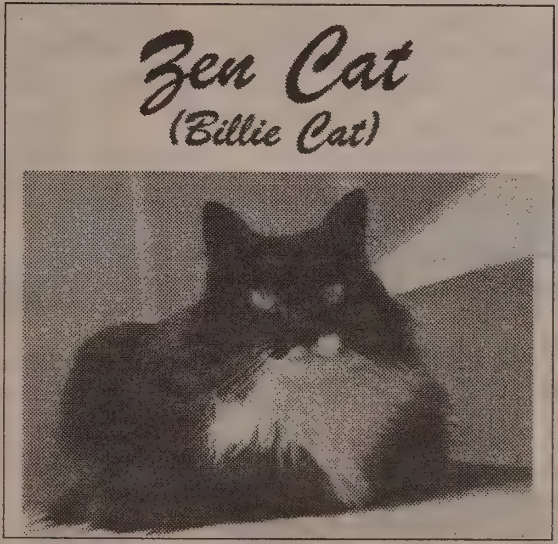


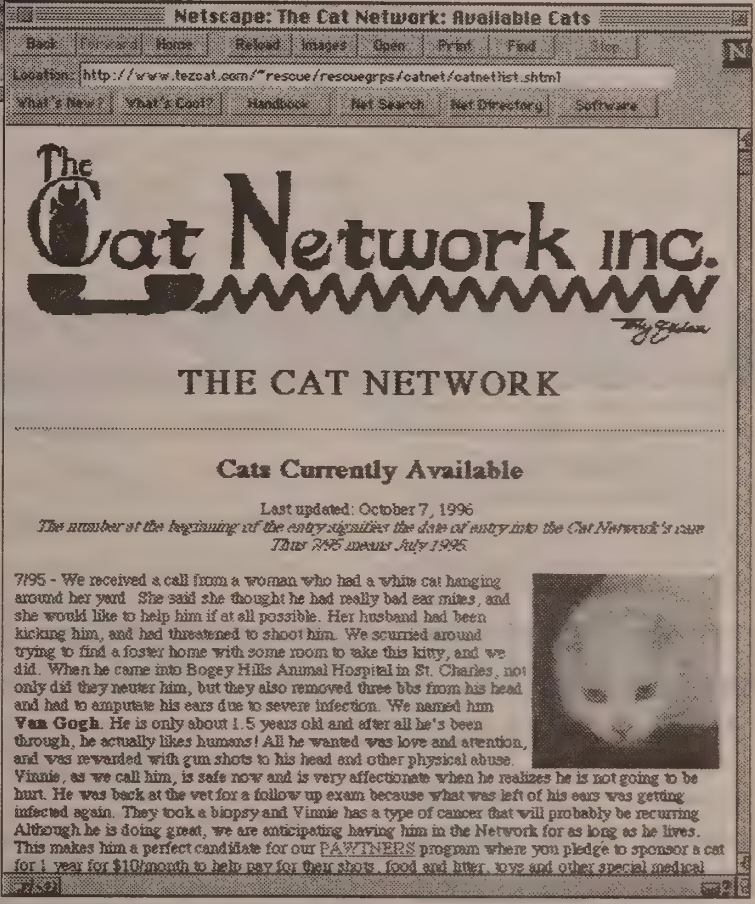
Scott Panzer tried to put himself in his cat's place when it came to designing his home page.

"My cat's home pages include what I imagine they would include about themselves, as reflected by their personality, if they actually could do this themselves," explains Panzer, a 29-year-old biologist and Web designer from New Haven, CT.

Panzer offers some advice on what should be included in your cat's Web page, should you be inclined to make one. It should have a picture of your cat, of course; however, he advises resisting the urge to load the page with many pictures so it doesn't take too long for a visitor to view. "It's rewarding when people write to you saying they think your cats are cute or they they've been touched in some way by the page," says Panzer, who also created the Connecticut Cat Rescue Web.

A Fitting Memorial

For cat owners who have lost their beloved pet, a memorial home page is one way to get through the grieving process.



THE CAT NETWORK

Cats Currently Available

Last updated: October 7, 1996

The number at the beginning of the entry signifies the date of entry into the Cat Network's care Thus 7/95 means July 1995

7/95 - We received a call from a woman who had a white cat hanging around her yard She said she thought he had really bad ear mites, and she would like to help him if at all possible. Her husband had been kicking him, and had threatened to shoot him. We scurried around trying to find a foster home with some room to take this kitty, and we did. When he came into Bogey Hills Animal Hospital in St. Charles, not only did they neuter him, but they also removed three bbs from his head and had to amputate his ears due to severe infection. We named him **Van Gogh**. He is only about 1.5 years old and after all he's been through, he actually likes humans! All he wanted was love and atention, and was rewarded with gun shots to his head and other physical abuse. Vinnie, as we call him, is safe now and is very affectionate when he realizes he is not going to be hurt. He was back at the vet for a follow up exam because what was left of his ears was getting infected again. They took a biopsy and Vinnie has a type of cancer that will probably be recurring Although he is doing great, we are anticipating having him in the Network for as long as he lives. This makes him a perfect candidate for our PAWTNERS program where you pledge to sponsor a cat for 1 year for $10/month to help pay for their shots, food and litter, toys and other special medical

To The Cats

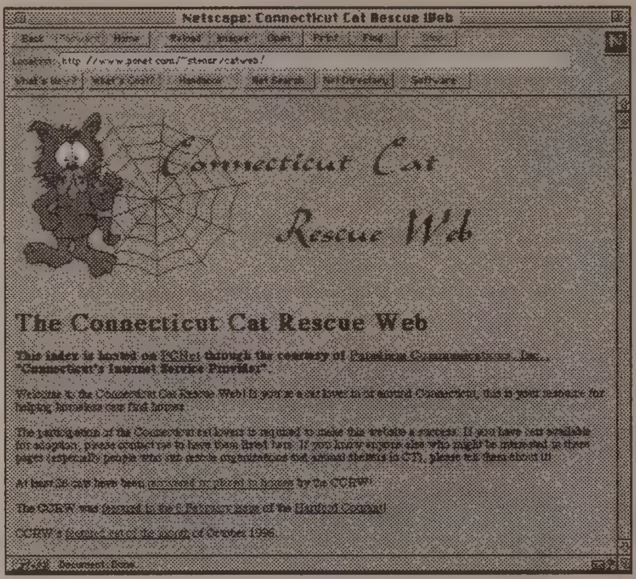
Going Online With The Feline

By David Noack

Above: First Cat Socks relaxing on the White House's South Lawn.

Jeannette Weston's 12-year-old Siamese, Lifesaver, died last year after battling cancer. As a way to help Jeannette through the grieving process, her friend Michael created a home page for Lifesaver.

"I was grieving at the time and Michael wanted to do something for me. I was touched by the gesture. I have received a dozen or so email messages expressing sympathy, and there have been over 500 visits to Lifesaver's Web page," says Weston, who is a computer system analyst and software developer from Boise, ID. She feels the home page, which includes two pictures of Lifesaver, helped her cope with her loss.


Netscape: Connecticut Cat Rescue Web
Back
Forward
Home
Reload
Images
Open
Print
Find
Stop
Location: http //www.ponet.com/~stenar/catweb/
Connecticut Cat Rescue Web
The Connecticut Cat Rescue Web
Document: Done.

Vital Resources

The Connecticut Cat Rescue Web is an important resource in helping to find homes for cats in the Nutmeg State.

The Web site includes of list of what cats are available for adoption, the name of animal shelters, humane societies and cat rescue organization, lost (and found) cats, a cat picture gallery and links to a variety of other cat Web pages.

The Cat Network Inc., an all-volunteer, no-kill, St. Louis-based group, rescues abandoned, abused, stray and shelter cats. The nonprofit organization's Web page includes an extensive listing of cats that have been rescued and nurtured back to health. The Cat Network does not have a shelter, so all of the cats are raised at home.

continued on page 110

Business T1 Total Connect

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128k monthly $ 400.00
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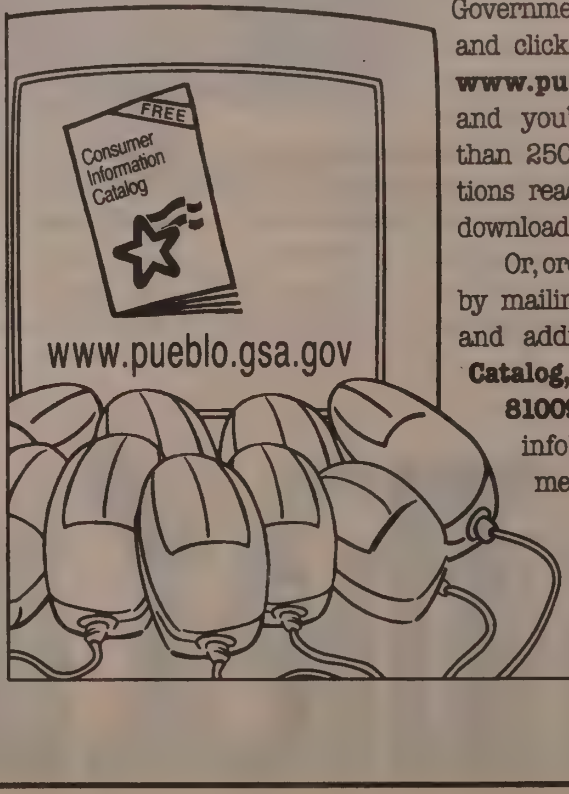
Or, order the Catalog by mailing your name and address to **Free Catalog, Pueblo, CO 81009.** Scurry, this info's the cat's meow.



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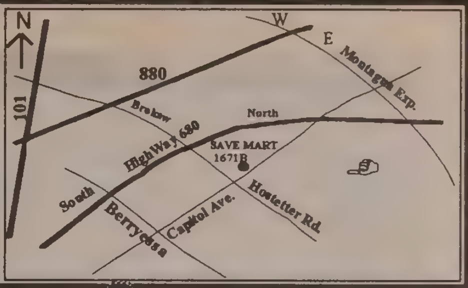

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	MB+CPU
Venus Pentium-pro 200/256K (ATX)	1160
Venus Pentium-pro 180/256K (ATX)	760
Tucson P-200/256K pipeline PCI (ATX)	695
Tucson P-166/256K pipeline PCI (ATX)	560
Tucson P-150/256K pipeline PCI (ATX)	452
Tucson P-133/256K pipeline PCI (ATX)	399
Tucson P-120/256K pipeline PCI (ATX)	340
Tucson P-100/256K pipeline PCI (ATX)	320
Marl P-200/256K pipeline PCI (ATX)	645
Marl P-166/256K pipeline PCI (ATX)	520
Marl P-150/256K pipeline PCI (ATX)	410
Marl P-133/256K pipeline PCI (ATX)	345
Marl P-120/256K pipeline PCI (ATX)	290
Marl P-100/256K pipeline PCI (ATX)	275
Endeavor P-166/256K Pipeline PCI	585
Endeavor P-150/256K Pipeline PCI	467
Endeavor P-133/256K Pipeline PCI	415
Endeavor P-120/256K Pipeline PCI	350
Endeavor P-100/256K Pipeline PCI	330
Intel Triton P-200/256K Pipeline PCI	610
Intel Triton P-166/256K Pipeline PCI	485
Intel Triton P-150/256K Pipeline PCI	380
Intel Triton P-133/256K Pipeline PCI	315
Intel Triton P-120/256K Pipeline PCI	265
Intel Triton P-100/256K Pipeline PCI	242
486DX5-133/256K AMDPCI +IDE I/O	120
486 DX4-120/256K AMD/PCI +IDE I/O	118
486DX4-100/256K AMD/PCI +IDE I/O	115
486DX4-100/256K INTEL/ PCI+IDE I/O	150
486 DX-33/256K INTEL PCI+IDE I/O	99

72 PINS MEMORY

8 MB 60ns 72 PIN EDO (16 chip)	40
16 MB 60ns 72 PIN EDO (8 chip)	85
16 MB 60/70ns 72 PIN (4x36)	100
32 MB 60ns (8x32)EDO	170
32 MB 60ns (8x36)	200

30 PINS MEMORY

1 MB 80/70ns 30 PIN (1x3)	8/9
4 MB 60/70ns 30 PIN (4x9 - 9 chip)	40

CONTROLLERS

IDE ISA w/I/O	10
EIDE ISA w/ I/O high speed 16550	25
EIDE Vesa LocalBus w/ I/O	15
EIDE VLB w/ I/O high speed 16550	20
Dual Printer port card	10
Adaptec 1542 ISA	150
Adaptec SCSI 2940U /2940UW PCI	190/235
Adaptec 3940 DUAL SCSI PCI	240

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Seagate 850 MB EIDE	145
Quantum 1.08 GB/ 1.20GB EIDE	170/200
Quantum 2.10GB EIDE	250
Western Digital 1.20 GB/ 1.60 GB	200/225
Western Digital 2.10 GB/ 2.50GB	275/310
Seagate 2.10 GB EIDE	270
IBM 2.10 GB SCSI/Wide SCSI	340/350

KEYBOARDS

104 WIN95 keyboard	13
Mitsumi 104 WIN95	15
Keytronic WIN95	24
Color 104 win95 keyboard	20
Focus 2001/Focus 7200 w/ Trackball	28/35

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3com 3C509BC ISA Combo	90
3com 3C590TPO PCI/3C900Ccombo	100/120
NE2000 combo PNP-ISA/PCI	25/30

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- * **16 MB EDO 60ns RAM**
- * TEAC 1.44 Floppy Drive
- * **1.20 GB IDE Hard Drive**
- * EIDE PCI built-in I/O 16550
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- ***ATX** Medium Tower 235W
- *Keytronic Win95 keyboard
- * Microsoft PS2 Mouse w/ Pad
- ***TOSHIBA 8X CD-ROM**
- * YAMAHA Sound 16 bit
- ***US Robotics 33.6** faxmodem
- * 180 Watt Speakers
- * Free CPU Cooling Fan
- * **Windows 95** full version CD (Monitor not inclued)

Pentium®	Processor
200 MHz	$1663
166 MHz	1548
150 MHz	1440
133 MHz	1384
120 MHz	1328
100 MHz	1314
75 MHz	1278

MARL SYSTEMS

- ***Intel Marl (Triton II) PCI**
- *256K Pipelined Burst Cache
- ***16 MB EDO 60ns RAM**
- *TEAC 1.44 Floppy Drive
- ***1.20 GB IDE Hard Drive**
- *EIDE PCI built-in I/O 16550
- ***Diamond Stealth 64PCI w/ 2MB VRAM upgrade to 4MB**
- ***ATX** Medium Tower 235W
- *Keytronic Win95 keyboard
- * Logitech Mouse w/ Pad
- ***TOSHIBA 8X CD-ROM**
- *Creative Labs SBlaster 16
- ***US Robotics 33.6** faxmodem
- *180 Watt Speakers
- *Free CPU Cooling Fan
- ***Windows95** full version CD (Monitor not inclued)

Pentium®	Processor
200 MHz	$1643
166 MHz	1528
150 MHz	1420
133 MHz	1364
120 MHz	1308
100 MHz	1294
75 MHz	1258

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- * 256K Pipelined Burst Cache
- * **16 MB EDO 60ns RAM**
- * TEAC 1.44 Floppy Drive
- * **1.2 GB IDE Hard Drive**
- * EIDE PCI built-in I/O 16550
- ***Cirrus Logic 64 PCI MPEG w/2MB DRAM**
- * 14" .28 Non-in Monitor
- * Mini Tower w/LED 230W
- * 104 Win95 keyboard
- * Logitech Mouse w/Pad
- * **8x EIDE CD-ROM**
- * **28.8** fax modem
- * Sound Blaster 16 vibra
- * 180 Watt Speakers
- * Free CPU Cooling Fan
- * **Windows 95** full version

Pentium®	Processor
166 MHz	1495
150 MHz	1380
133 MHz	1312
120 MHz	1256
100 MHz	1245
75 MHz	1210

Best Buy Systems

- * **Intel Triton** VX PCI MB
- * 256K Pipelined Burst Cache
- * **16 MB EDO 60ns RAM**
- * TEAC 1.44 Floppy Drive
- * **1.2 GB IDE Hard Drive**
- * EIDE PCI built-in I/O 16550
- ***Cirrus Logic 64 PCI MPEG w/2MB DRAM**
- * 14" .28 Non-in Monitor
- * Mini Tower w/LED 230W
- * 104 Win95 keyboard
- * Logitech Mouse w/Pad
- * **8x EIDE CD-ROM**
- * **28.8** fax modem
- * Diamond Stereo Sound 16
- * 180 Watt Speakers
- * Free CPU Cooling Fan
- * **Windows 95** pre-loaded

Pentium®	Processor
200 MHz	$1531
166 MHz	1415
150 MHz	1300
133 MHz	1232
120 MHz	1176
100 MHz	1165
75 MHz	1130

Sale

intel CPU w/ intel Triton VX PCI 256 pipelined
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16 chip EDO Micron Technology

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Sony 15SX1 15" monitor	369
Sony 15SF2 15" monitor	455
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Mag1595 / 1795	345/585
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Hitachi CM1711 17" monitor	790

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Spider VLB 1MB/2MB	45/60
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Tarantula 64 MKII PCI 2MB/4MB VRAM	150/230
Tarantula 64 PCI 1MB/2MB VRAM	100/150
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Stealth 64 PCI 1mb/2mb	65/80
Stealth 64 3D EDGE Multimedia PCI	140
Stealth 64 3D 2000 PCI 2mb EDO	100
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SONY 8X SPEED IDE	110
TOSHIBA 8X SPEED IDE	120

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Full Tower Case w/LED 250 Watt P.S	65
ATX Mid Tower case w/ 235 Watt P.S.	100
ATX Full Tower w/ 235 watt P.S	130

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28.800 Supra PNP / voice PNP	90/95
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- * 104 Win 95 keyboard
- *Logitech Mouse w/ Pad

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486DX4-100/256K AMD	675
486DX-33/256K intel	660

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- * 14" SVGA .28 Color Non-IN Monitor
- * Mini Tower Case w/LED w/230W P.S.
- * 104 win95 keyboard
- * Logitech Mouse w/ Pad

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PANASONIC IDE 8X	98
TOSHIBA IDE 8X	105
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ADAPTEC AHA 2940 PCI SCSI-II	178
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AMD 586-133MHZ	36
AMD K-5 PR100	73
IBM 6X86-120+	88
IBM 6X86-150+	114
IBM 6X86-166+	195
INTEL PENTIUM® PROCESSOR 120MHZ	158
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INTEL PENTIUM® PROCESSOR 150MHZ	269
INTEL PENTIUM® PROCESSOR 166MHZ	382
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LITE-ON 6000P ERGONOMIC W/TOUCH PAD	50
MICROSOFT NATURAL ERGONOMIC	55

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MICROSOFT PS/2 MOUSE	25
MITSUMI PS/2 MOUSE	19
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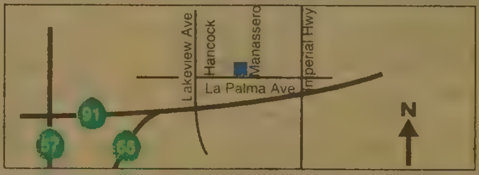

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The Web: It's Going To The Cats

continued from page 106

A Parting Word

Even though cats are considered low-maintenance pets, they still like a kind word and companionship.

A graduate student at Carnegie Mellon University in Pittsburgh has used technology to ensure that his cat is never alone. He set up his Web page with a voice synthesizer. This allows anyone who logs onto his Web site to type in a comment to the cat and it comes out the other end as computer speech.

"Type a sentence to my cat in your browser's search dialog. The computer will say it, and, if the cat is around, it will hear it," said Michael Witbrock, who created the "Talk to My Cat" home page. ■

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RESOURCES:

Cat Home Pages

Connecticut Cat Rescue Web
URL: *http://www.pcnet.com/~stenor/catweb/*

Cat Fanciers' Association
URL: *http://www.cfainc.org/cfa/*

The Cat Network
URL: *http://www.tezcat.com/~rescue/rescuegrps/catnet.shtml*

Mihit American Curls
URL: *http://ourworld.compuserve.com/homepages/mihit_amcurl*

Figaro's Home Page
URL: *http://www.cs.washington.edu/homes/jbuhler/spud.html*

Hunters Glen Cattery
URL: *http://ourworld.compuserve.com:80/homepages/huntersglen/*

Naomi's Home Page
URL: *http://www.interlog.com/~kschengi/naomi.html*

Pets Unlimited
URL: *http://www-personal.usfca.edu/~magipa00/petsunlim.html*

Zen Cat
URL: *http://www.kleinman.com/hp/zencat.html*

White House
URL: *http://www.whitehouse.gov/WH/kids/images/socks-southlawn.jpg*

Resources For Learning Web Page Construction

A Beginner's Guide to HTML
URL: *http://www.ncsa.uiuc.edu/General/Internet/WWW/HTMLPrimer.html*

Crash Course in HTML
URL: *http://www.nashville.net/~templedf/crash/CrashCourse.html*

HTML, Quick and Easy
URL: *http://www.mlode.com/~guzzetta/pages/howto*

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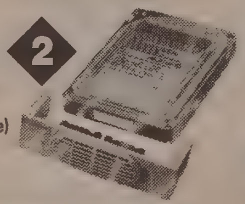

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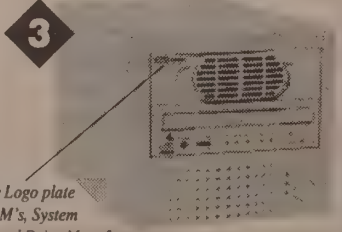

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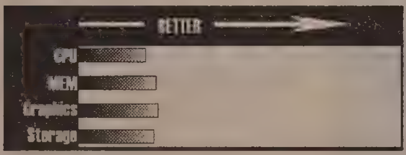

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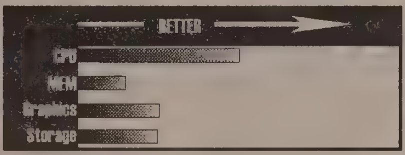

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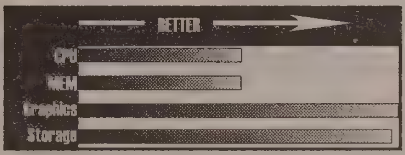

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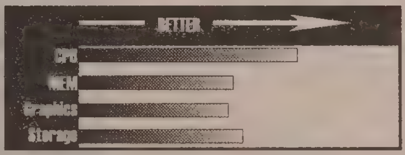

HP NetServer LC

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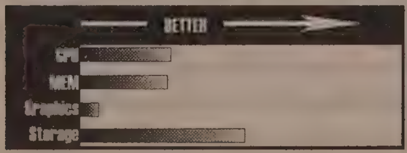

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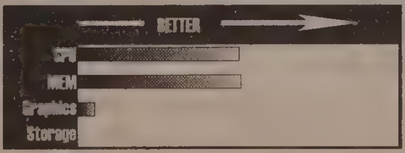

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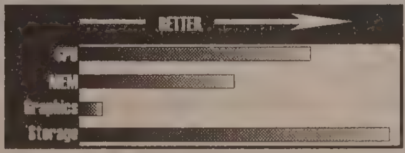

MaxServer MX

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- (Ultra Wide SCSI-3)
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- 8X-Speed SCSI-2 CD-ROM
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Computers And Education

Theorists, Teachers, And Parents On What Works, What Doesn't, And Why

By Roger Karraker

Open any magazine, turn on any news show, and you'll see ample evidence of fear-mongering borrowed directly from *The Music Man*'s Trouble In River City—only today it's computers, not pool, that "threaten" our youth. Almost daily we read scare stories—often written, like Neil Postman's screed *Technolopy*, by those who don't use computers in the classroom—about computers substituting for social contact, about antisocial behavior, about "addiction," about porn and bomb-making instructions on the Internet. It's enough to make you want to buy band instruments.

So I set out to explore the "dark side" of children using computers, talking with computer-using educators, researchers, parents and children.

Surprise: the educators, researchers and parents most experienced with computers in the home and classroom say there is little documented evidence that computer use is at all harmful. There may be a small amount of truth in, say, Clifford Stoll's cautionary book, *Silicon Snake Oil*. Computers are over-hyped; they aren't panaceas: the use of a computer won't get a dunce into Harvard.

But neither are computers a modern-day poolroom, an information superhighway to perdition. A wide range of computer-using experts say, in large measure, that attempts to blame computers for any shortcomings of today's youth are simply barking up the wrong tree. Yes, there is a possibility of addiction, says educator and parent Michael Salinger, "but it's like TV; you just have to manage their time." Other than that, the complaints we heard were of a far different sort.

These computer-using experts defined the problems as not enough computers, untrained teachers, indifferent administrators, software of questionable value, and the very real threat of a major social schism between those who have computer tools and those who don't. The problem, they said again and again, is not computers. It's school.

Predictable Impact, And Some Surprises

Five hundred years after the introduction of printing, fifty years after the advent of television, we're still debating the effects of those technologies. But what about the effects of computers on children?

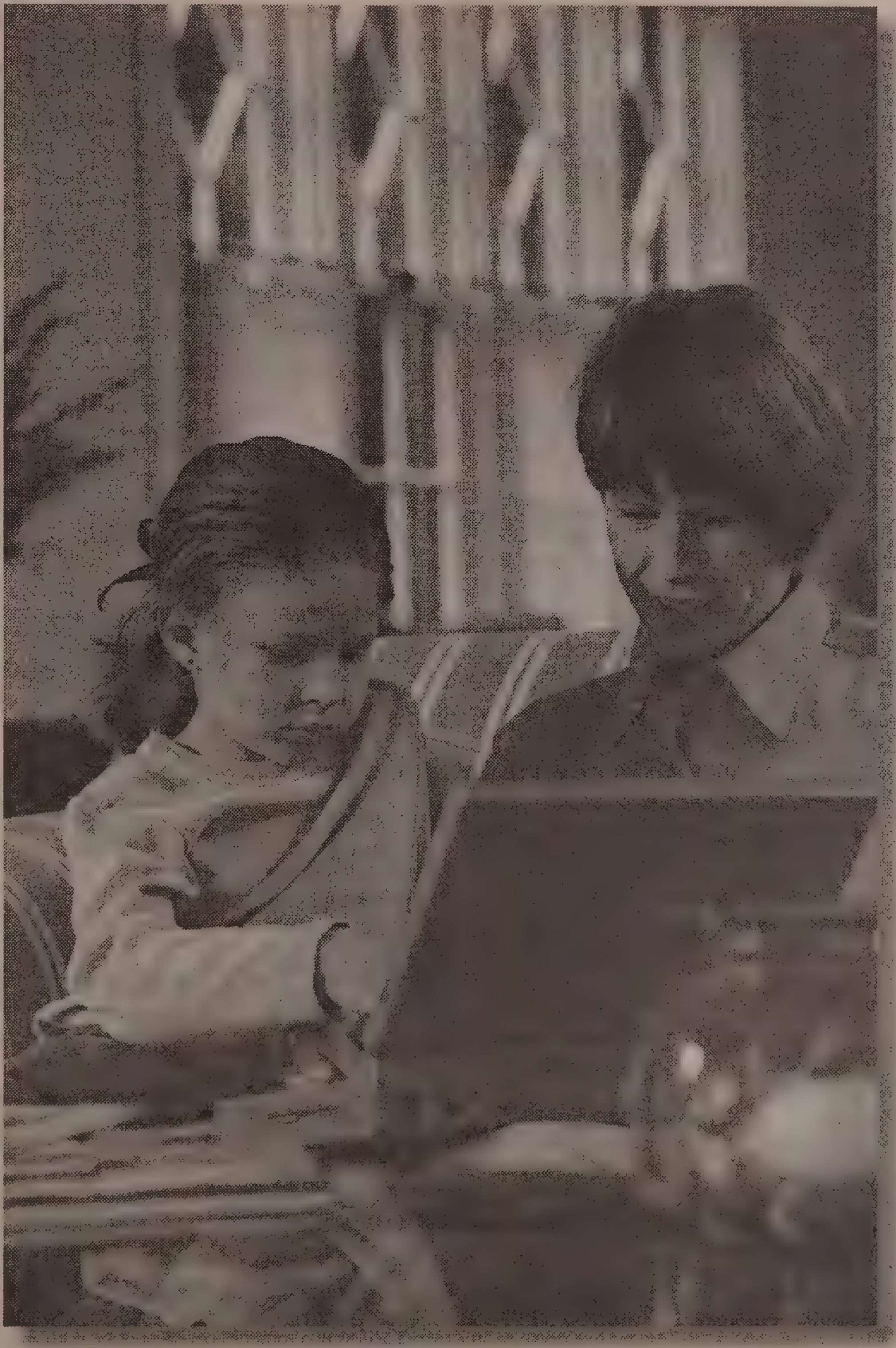
Microcomputers are just 20 years old and still, in relative terms, far from ubiquitous. Most school classrooms have no more than one computer for 30+ children; perhaps half of all classrooms have no computer at all.

Hundreds of studies are being conducted. All suffer from the limitation that computing, whether in school or at home, simply can't be removed from dozens of other variables. Unsurprisingly, there's little unanimity about what the phenomenon of computing is doing to our children. We get hints and informed opinions, not definitive answers.

For example, there's little question that schoolchildren with ready access to lots of computer time tend to have higher scores on certain kinds of standardized tests. But, as any freshman knows, correlation does not equal causality. Those schoolchildren with the highest access to computers tend to come from the wealthiest socio-economic strata: their parents tend to be managers and professionals, college graduates earning $50,000 per year or more. So are the children's higher scores attributable to the computer or to their already-privileged lives?

These are just the kind of questions that absorb William Dutton, who is both a professor of communication at USC's Annenberg School of Communication and a professor of public administration in the School of Public Administration. "My research team reviewed all the published literature [on test scores and computer access]," says Dutton. "Every significant element is inextricably entwined with socio-economic status." Some negative stereotypes (one study quoted by National Public Radio said computer-using children tended to be more obese) have a basis in fact, he says, but others are surprising.

Those who use computers a lot do tend to go outside less, he says: "There is such a thing as a nerd stereotype and sometimes it fits." But he's quick to add that far from being glued to television, computer users actually watch less TV than their counterparts. "There's a widespread misconception that time spent at the computer substitutes for personal contact. The data simply don't bear that out. Computer use seems to substitute for television watching," he notes, "and that seems like a positive thing."



Computers As Classroom Alternative

The experiences of several computer-using teachers tend to bear out Dutton's observations. Michael Salinger, an instructor at Santa Rosa Junior College, also regularly teaches introductory computing to special groups of 9-12 graders at Sonoma State University.

Salinger and his wife Joanne have home-schooled their son, Kevin, now 15, and are starting with their daughter, Katherine, just 3 1/2 years old. Much of their instruction revolves around the family's two Macintoshes, telecommunications and the Internet. Even baby Katherine, Salinger reports, has her own folder, knows how to open it and, unattended, can access Brøderbund's KidPix drawing program or one of several learning programs from EdMark, The Learning Company and Disney. For the time being, she still requires some help in inserting and mounting CD-ROMs.

Salinger says computers can engage students in ways that a typical classroom lecture can't. "Computers teach them things in a different way," he says. "It may be exactly the same things, but the computer puts it into a multimedia format that is more exciting." As a result, he says, students become, "more excited, more interactive; they participate more than they do with repetitive experiences drilled at them."

The biggest factor, Salinger says, is that a "live" classroom performance is, of necessity linear,—and the same for all in the classroom, both the quick and the slow, the visual learner and the kinetic learner. "The computer is non-linear; they can choose the order. It makes a big difference." Indeed, Salinger says he can see the difference with his daughter. "Katherine won't play more than once with poorly designed traditional single-path games," he says. "She prefers the non-linear ones where she can influence the story."

His toddler's experience, Salinger says, is considerably different from his teenage son's. "Kevin came to computers from video games, Nintendo and Sega, blasting things to smithereens. To some extent, at first the computer was just another video game." What changed that, Salinger said, was telecommunication.

"Home schooling, by its very nature, is more solitary, less social than traditional schooling," he says. "But telecommunication has enabled Kevin to add an important social dimension to his schooling." He started communicating via local bulletin board systems, became the assistant sysop of a local BBS designed for schoolkids, and has since graduated to America Online, the Internet and several Net mailing lists.

"One of the real drawbacks to home schooling," Salinger points out, "is that kids lack an audience; hence they don't write enough. Kevin rarely writes unless it's required." The exception, he says, is online. Kevin has become interested in both politics and talk radio, and subscribes to Internet listservs on those subjects. It's Kevin's thoughts, logic and language that earn him respect; few know he's just 15 years old. "The listservs provide a great outlet for his thoughts; they're a great complement to home schooling," says Salinger. As a result of the listserv discussions, Kevin is planning to become a lawyer.

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Haves And Have-Nots

Bill Dutton understands exactly what Michael Salinger is talking about. "Computers are how modern people communicate," he says.

One of his worries is that perhaps half the nation's people have effectively no real personal contact with computers at all. Managers and professionals, such as Salinger, can afford the several thousand dollars it takes for a computer, educational software and telecommunications. The vast majority of families can't.

"The problem," Dutton says, "is that while some fortunate sixth graders are able to work easily with advanced tools like spreadsheets, we have another half of the population where kids effectively don't have access. These kids have no computer exposure—zero—other than school."

The result, he says, is a significant national problem. "Schools and libraries can reduce inequities, can provide more equitable, affordable access. I'm not Utopian, but we could reduce inequities."

Will the educational system, which now invests just 1% of its budget in computers, suddenly increase spending? "Some schemes, such as getting computers and laptops to all kids, really aren't feasible," he says, "but public facilities are, and they are needed if we are to avoid an undereducated underclass."

Marge Wright, too, has worries about that underclass. She's a second-grade teacher at tiny Westside School in semi-rural western Sonoma County, eighty miles north of San Francisco. Her six-room schoolhouse has just fifteen computers, many of them Apple IIs that were obsolete a decade ago. The school will buy five "new" computers this year—Macintosh LC IIIs that were discontinued two years ago. The school, which receives an estimated $650,000 in state and local funding to teach 140 students, will probably spend just $3,000 or so on computers.

Changing Lives

Westside School is using new state funds to reduce class size from thirty-two students to twenty. Wright will get one computer in her classroom this fall. She's anxiously wondering how in the world she can put one hand-me-down computer to good use. And it's even more frustrating for her because she's seen first-hand how lives can change when a computer opens the doors to learning.

Wright's son attended high school just eight miles from where she teaches. But it might as well have been in a different century. Like the Salingers, the Wrights had a computer in the home.

Will, now 18 and on his way to major in computer science, was a bright but indifferent student who didn't do particularly well in school until enrolling in a CAD drafting class at Forestville's El Molino High School. "Will liked school for the social aspects, and was liked by his teachers, but he didn't ace classes. He had to put in time," Wright remembers. "His grammar and syntax were particularly fractured; most classes were a grind."

The computer changed that, Wright says. "He found something he was really good at. He could relate his computer work to other things that he knew. It certainly boosted his self-esteem; then we saw an upward spiral." Within a year, Will was a paid intern at Hewlett-Packard, spending three afternoons a week learning computing one-on-one with an HP supervisor, learning C, C+ and Perl while programming many of HP's internal World Wide Web pages. He's since been hired back full-time by HP for summer work, doing more advanced Web work.

What turned Will around? Wright says it was the high school's CAD program—and the presence of a computer at home, where he could devote the time to learning his craft.

continued on page 284

The real world isn't linear, like a classroom lecture, Douglas Rushkoff says, it's "multitasking," dealing simultaneously with email, phone calls, a written report, a live conversation. Computers, Rushkoff says, are uniquely suited to teaching students how to deal with multitasking.

What Works?

So what will work? The experts kept returning to a few basic themes:

•**Schools need lots more computers.** Children need not just an hour or so a week in a school lab, but more like Apple's famous Vivarium Project at an inner-city Los Angeles magnet school, where there might be as many as thirty computers, many of them specialized for unique tasks, in a double classroom for sixty students and two teachers.

How to pay for them? Frederick Knirk suggests being counter-intuitive and raising class sizes: "Each school gets about $5,000 per year per student. If each teacher takes two more students, you suddenly get $10,000 per year per classroom, and the new computers, with proper software, can free the teacher to provide more personal and small group instruction."

•**Students need additional access in libraries, community learning centers and homes.** Says Michael Salinger, "There's no question that computers are expensive, in both money and time. But $2,000 spent on a home computer, software, modem and Internet connection may be the best and cheapest educational investment you can make for your child."

•**The hidden ingredient isn't the computer, it's the network, says Richard Abrahams.** School and home computers need to be connected so students can communicate with others. Schools need to have full-time Internet connections for *all* their computers. Computers at home need to have dial-in access to the Internet (available free through some schools, colleges and community "freenets"; usually $20/month or less virtually everywhere from 12,000 or more Internet Service Providers).

•**Not all software is created equal.** The most engaging are multi-faceted "simulation sets." Bill Dutton recommends SimCity and ADAM, both of which are useful for students from junior high to adulthood. Michael Salinger says his children prefer programs from Disney, EdMark and The Learning Company.

—Roger Karraker

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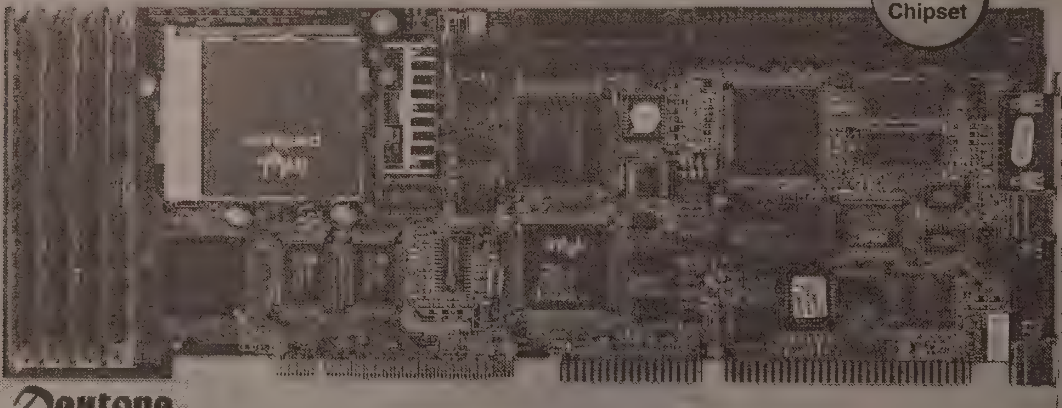

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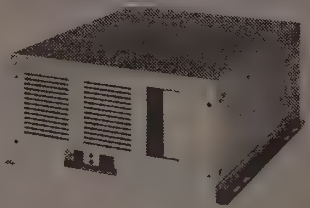

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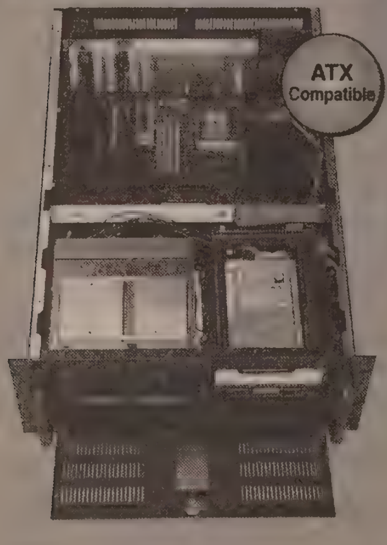

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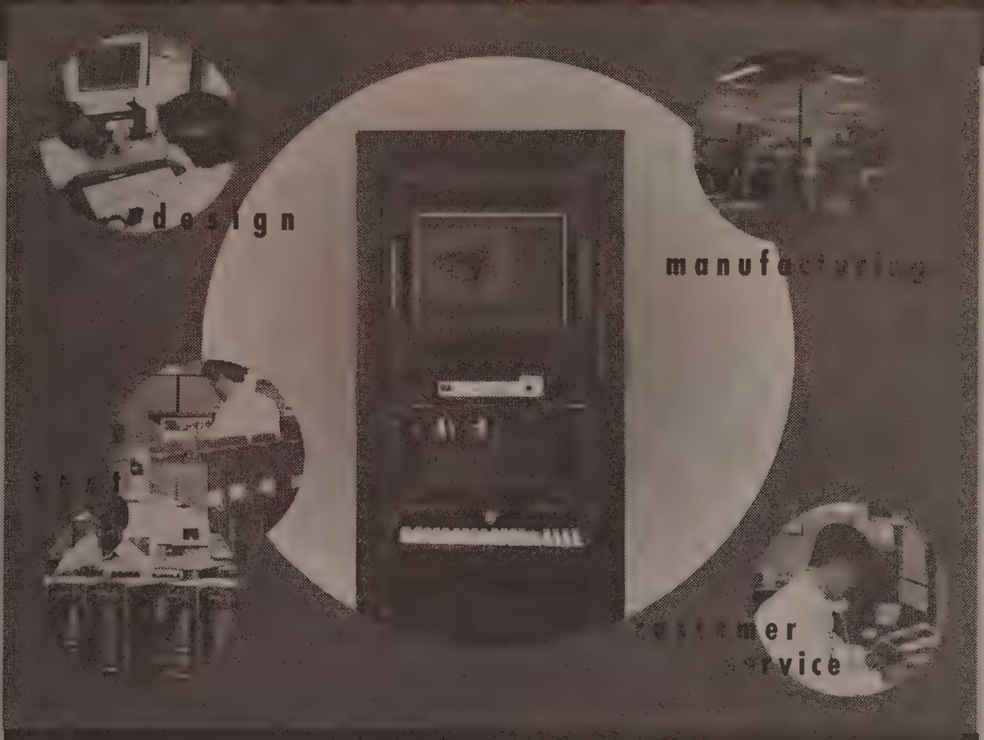

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By Michael Robin • Photos by Jay Blakesberg

Live Performances, with a stage introduction by promoter Bill Graham, includes photos from performances around the world, ranging from San Francisco, CA on June 14, 1987, to Budapest, Hungary on June 27, 1990, to Moscow, USSR on July 4, 1987, plus a complete history of the Santana Band's tour schedule and membership. You are also introduced to the musicians currently in the Santana Band.

The Influences section presents the work and lives of John Coltrane, Bob Marley, Miles Davis, and Jimi Hendrix—information that Santana believes is something "people need to hear beyond the music." QuickTime clips offer Santana's insights into the influences each of these artists has had upon him. Video clips of performances, a photo gallery, and short biographies round out this introduction to these four seminal musicians.

Finally, in Guitar Lessons, Santana performs from five of his most recognized songs: "Black Magic Woman," "Oye Como Va," "Europa," "Bella," and "Samba Pa Ti." Selecting Technique, Tone, and Inspiration gives a look into Santana's thoughts, intentions, and emotions for these songs.

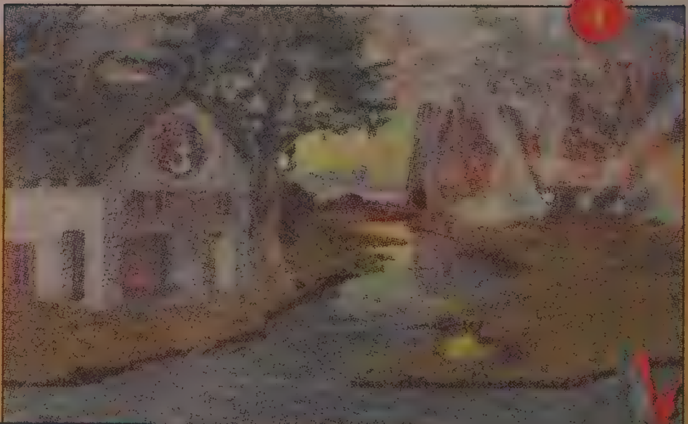
I caught up with Santana in San Rafael after he returned to the Bay Area following two months of touring the US. Like most conversations with Santana, our discussion of his latest venture into multimedia quickly became intertwined with the content and ideas he is passionate about.

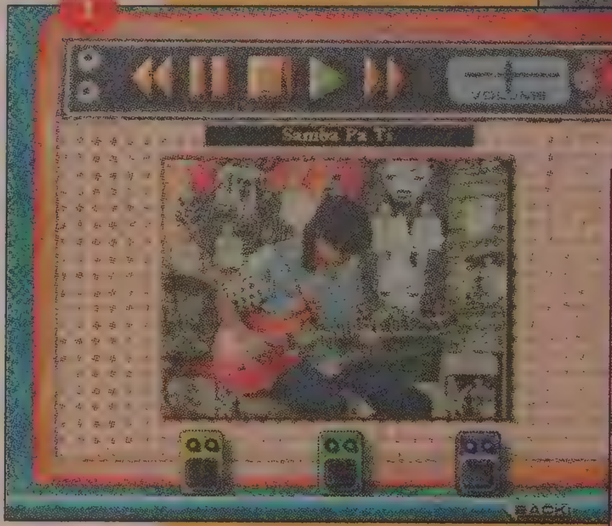
Let's start by talking a little about your new CD-ROM, *A River of Color and Sound.* Whose idea was it? Why would you want to do a CD-ROM vs. another album or a video?
It's the information, the information that I have passion for.

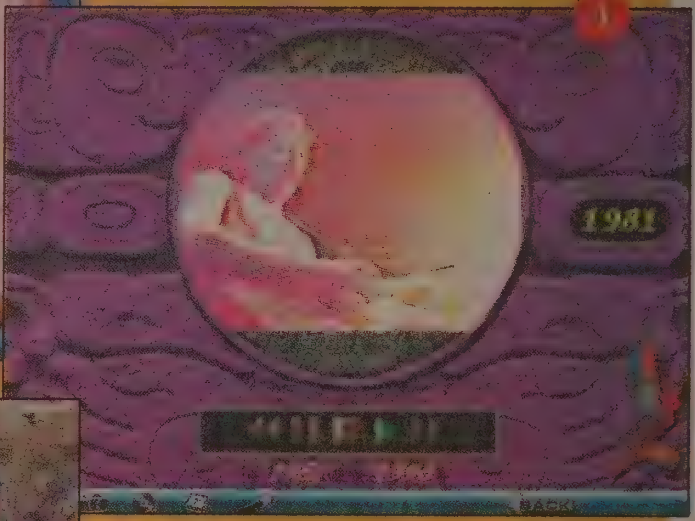
My wife is the one that turned me on to the CD-ROM from Peter Gabriel a couple of years back. I liked the information—part of it was the information and part of it was educational, to teach people how to get the sound out of a djembe. To get different sounds, different tones. I said, "Oh, this is nice."

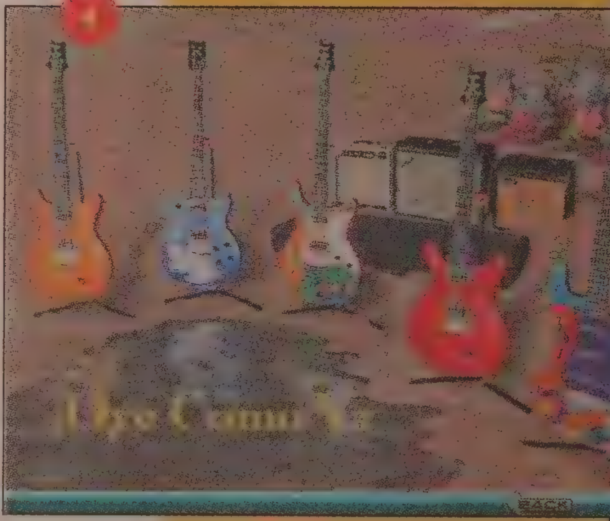
I realized that I have a lot of things to share with people besides another album. The things that I feel people need to hear beyond the music.

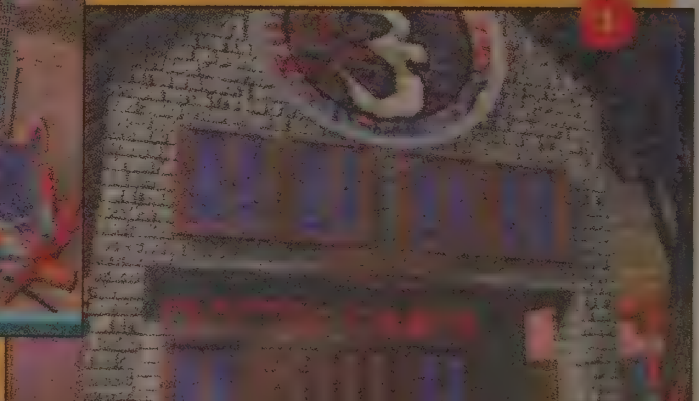
1. Travel down the river to discover the different sections in Santana's new CD-ROM. 2. Select one of the smaller amplifiers to hear Santana explore the technique, tone, and inspiration for Samba Pa Ti. 3. Watch video clips of performances from throughout Santana's career.

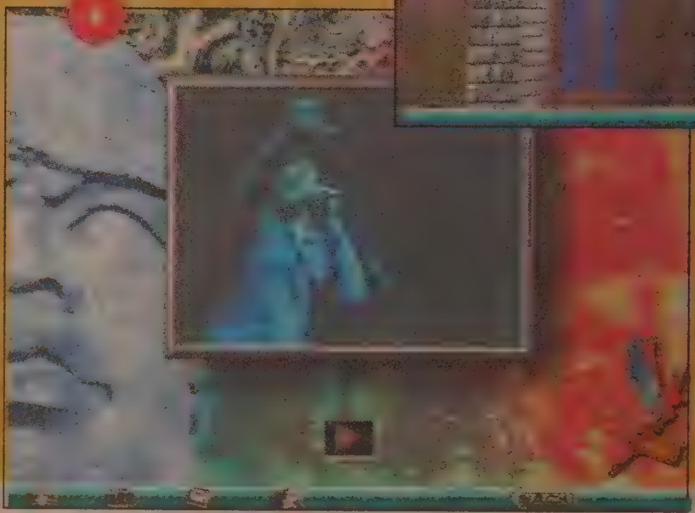












4. Each guitar offers a lesson of one of Santana's most famous songs. 5. Tour the Electric Church, Santana's music studio. 6. The music and spirit of Bob Marley is one of Santana's main influences.

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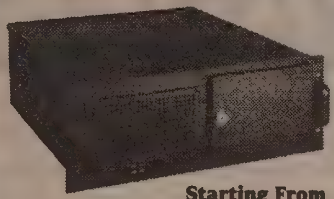

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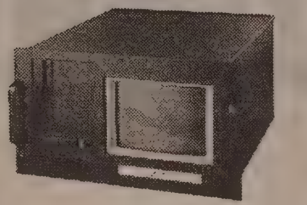

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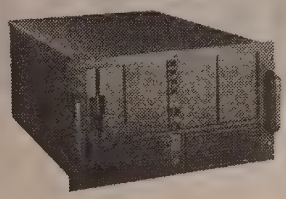

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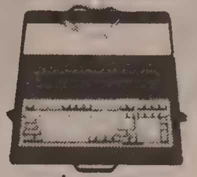

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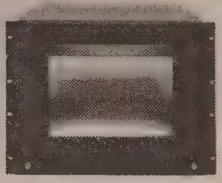

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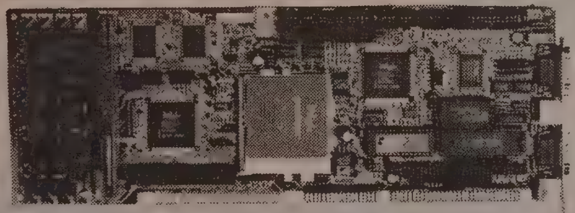

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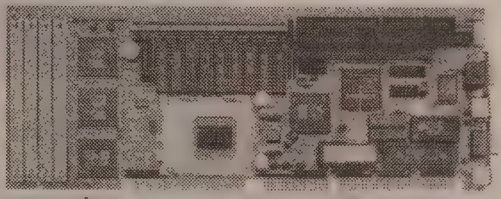

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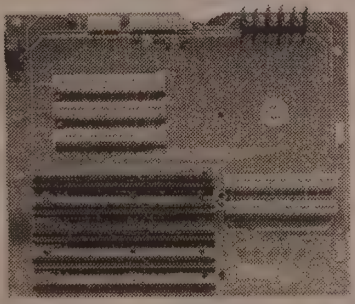

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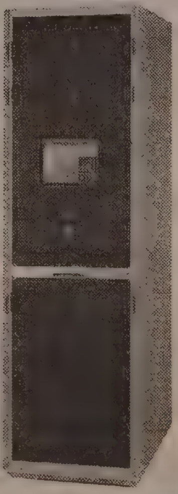

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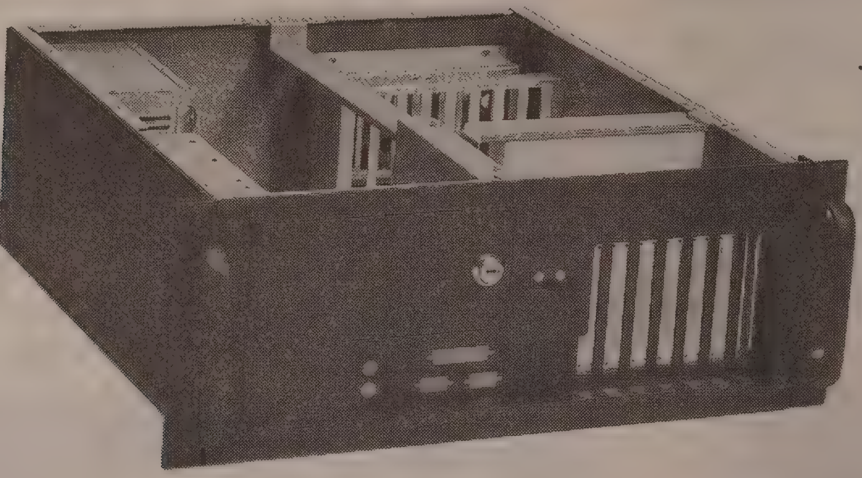

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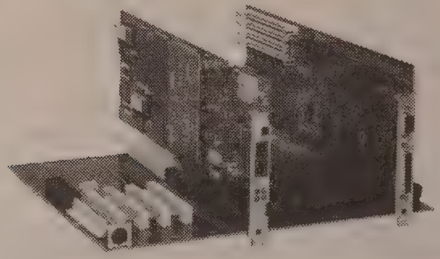

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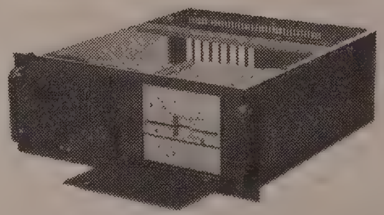

RC-4107ATX

Multimedia Server Application

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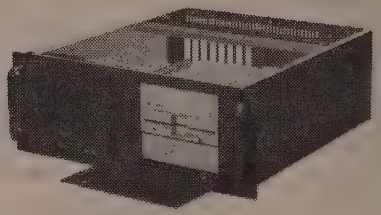

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But for the Santana thing, the *River of Colors* is really to teach people about consciousness—Bob Marley, "One Love," and John Coltrane, "A Love Supreme." I think this CD will bring people closer to understanding that we are completing this time of duality, good and bad, right and wrong, good and evil. We are beginning to see differently than how we were indoctrinated and to see that we are the whole store. We can't just go to the store and be so selective about what we want—we are the store. We are Republican and Democrat, we are everything. "All is One" is the ultimate reality that I think is the center of this CD.

Was there a particular audience you had in mind when you were working on this? Who is the ideal person for this?
Anyone who has eyes and a heart. Age is not a factor, gender is not a factor, generation is not a factor. Anybody who can relate to the principle of "for the highest good of all."

The CD has five main parts, my two favorite sections were Influences, where you talk about Coltrane, Bob Marley, Miles Davis, and Jimi Hendrix, and the Guitar Lessons, where you talk a little about the inspiration for the songs and your thoughts on how to play them. Could you say a little about how content, for the whole CD was decided upon? As the content was developed, were you involved in deciding what exactly would be included?
Yes and no. They would present me options: What would you like to do? Here's a menu.

I would say, "This instruction would be nice, especially if we teach people there's a way to hit a note so that your intentions translate into the tone."

If your intentions are not correct then it's like skin-deep. But if your intentions are like the principles of John Coltrane or Bob Marley then people's hairs will stand up, they get goose bumps. It is very sensual and spiritual at the same time.

I wanted to let the people know that anybody can bend notes, but it's what you are thinking and what your intentions are while you are hitting that note that takes it far beyond and then you can start affecting people the same way that either Jimi or Peter Green or Eric Clapton affect people. When they play, and hopefully when I play, it's more than just notes. It's more than just licks. And it's more than just patterns. It's like a tongue licking you and you go "whooooh" for the first time. If you've never been licked you won't understand it. But if you've been licked before it's like a different kind of feeling when a tongue touches you. It's like that.

To me, the instructional part is to be inviting people who want to learn how to play the guitar to approach it from a different point of view than buying a guitar instructional video. It's more about the intentions and the consciousness.

The process of making the CD-ROM is different than making music, you are working with graphic artists and programmers rather than audio engineers and other musicians, and it is not something that will be performed. How different is this process? Is the creative process different?
I don't know...I think it might be different. It's definitely different than being in the studio or being live. The intentions should be the same but the approach is different. The intention is always to affect the heart.

There are things that I associate with you that are not on the CD-ROM—some of it is historical information, or your relationship with Bill Graham, or about your spiritual explorations and your message. Was there a reason so much of it seemed to be left off?
There is only so much room for information to put on it.

At the time I had been doing two things. I was doing the CD-ROM and I have also been writing a book. You are right, I should have gotten in there my relationship with Bill Graham and my relationship with looking for intimacy with the spirit.

It gives me room to do another one. To do another one and really take my time. Don't talk about guitars. Just talk about the same principles that Bob Marley was pursuing, that Coltrane was pursuing. We all need intimacy. Once you get beyond lust and greed, then you want the ultimate intimacy, which is intimacy with light. That becomes a whole other kind of universe to explore.

The other night I was looking at the Santana Web site. One of the quotes on there by you is "The most valuable possession you own is an open heart. The most powerful weapon you can be is an instrument of peace." Your music is one of your instruments of peace, how does the CD-ROM fit into this?
Yes. Whether it's the CD-ROM, or if I paint a picture of Donald Duck, or whatever I play, it's all an extension of what I am trying to do. And what I am trying to do is be consistent in my

To inflame the heart of the listener or the viewer with the desire for light and love. That is the best thing that I can do, the rest of the stuff, if it doesn't go that way it is a waste of energy, a waste of time.

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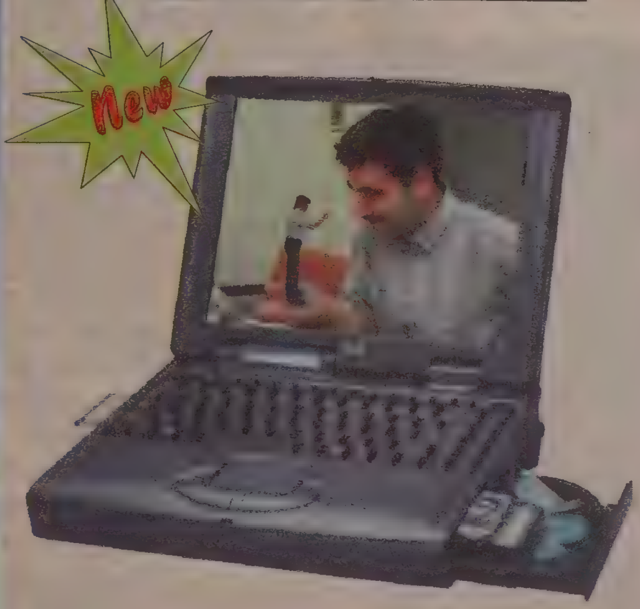

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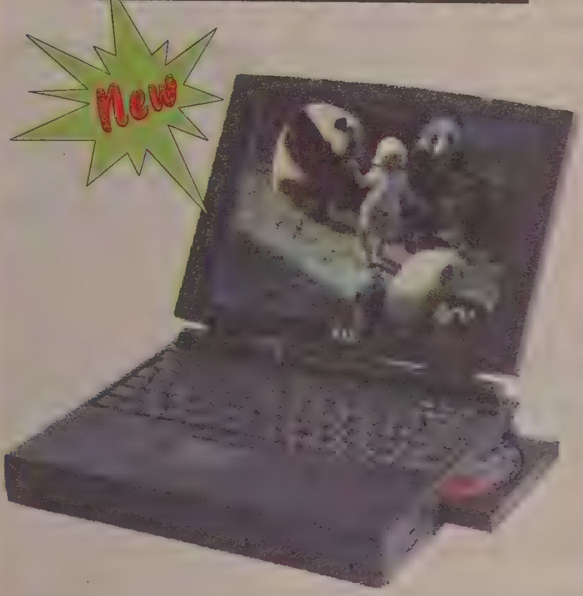

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life with inflaming the heart of the listener with the desire for light and love.

To inflame the heart of the listener or the viewer with the desire for light and love. That is the best thing that I can do, the rest of the stuff, if it doesn't go that way it is a waste of energy, a waste of time.

I can't separate myself from the things that I really love, which is Coltrane and Bob Marley, their principles and their intentions. They always wanted to inflame the heart of the listener with the desire for light and love. That was the core of their thing.

This to me is just an opportunity to directly or indirectly guide people towards that...hey, there is an exit. If you are tired of being like a squirrel that goes around and around, there's an exit. You can open the cage and actually go out and climb that beautiful tree out there and taste a different kind of fruit than what they bring you out of this box. Kind of like that. That's the principles of it. This other way of doing it, whether it's a CD or a comic book or whatever, it's just an approach.

Just another tool.
Yeah, another tool.

This is a little more general, computers, and in particular computer networks, are sometimes criticized for their role in homogenizing world culture. Your music does something else. There is a blending of cultures and influences without taking away from the parts. As you draw from Jazz or African or Native Americans music, those entities are not homogenized. How do you blend these influences for the way you communicate through your music?
As much as possible. As I mentioned to [*Today Show* host] Bryant Gumbel when we played at the park in Atlanta [a free performance during the Olympics for the athletes, visitors, and the general public], "we don't play white, we don't play black." I don't want to sound white and I don't want to sound black. I want to sound like water or like a diamond or like the whole rainbow. Black and white get on my nerves, it's just too one dimensional. I like heart. I like the spirit.

To me, the blending of all these principles is what really disarms people. When they hear it, it's more than this or that. All of a sudden I am inviting you; I am compelling you. I am trying to compel the listener to wake up to their absoluteness. You are Hebrew and Palestinian, you are both. We are both. We carry in our DNA everything, including things we are yet to discover. God invents and man discovers, then we try to take the credit for it. But in reality the great spirit invents it.

Picasso one time said, "The trouble with computers was that they are very limited because all they do is show facts." I think Picasso said that. Well, it's true.

At the same time you can implant seeds of information in those facts. Use facts to embrace the invisible and then it becomes positive. If you are just going to use facts like how many years or how much money something costs, then that's very limited. But if you are using a fact to turn people on to rapture and splendor, the computer becomes a little more like an arrow that points...I don't have the whole answer but keep going this way or keep going inside your heart. Inside your heart you will find the answers to things that the mind hasn't even come up with the questions to yet. The mind is the house of questions and the heart is the house of answers.

"All is One" is the ultimate reality that I think is the center of this CD.

It didn't turn me off to do this CD-ROM or to be in the Internet because I realized that the times we are living through we are like freeways. It used to be like one road with the horses and wagons, now it's like a freeway of information. Rather than the beer or gum they are trying to sell [on the Internet], why not put things like aphorisms that people can chew, like "when the power of love replaces the love for power"?

If you use the Internet or a CD-ROM for that, then it's a positive tool. A lot of people will be going "when the power of love replaces the love for power" and think about that. Once you think about it and really grasp it, you say "Oh yeah, that's right. This is beyond politics or religion." That's why to me it was important to do this; to test it out and see how it affects people and maybe, later on in the future, do something a little deeper, something to do with what I am discovering is my guardian angel, Metatron, the master of duality.

Metatron is the eye inside the triangle. He is the highest angel, he is the closest to the throne. He is the one that created physical life by triangles. When you look at an atomic microscope and you get inside the cells, everything is all triangles. I think that more than ever people in this century are becoming more prepared to be hungry for this information instead of Adam and Eve.

Computers bring facts, but they can also bring truths. And the truth is pretty powerful.
Right. You can't change the truth. It doesn't go out of fashion, it transcends fashions. It's not like Afros and bellbottoms, those things come and go. The real truth, I don't think you can change it or bend it.

I can hardly wait for more computers and more people who deal with computers to get into that form of it. To turn the masses to the power of grace. Hopefully, we as human beings can have more understanding and more compassion because of it. Right now we are very, very divided and it's very cruel and brutal.

Over the years you have worked with a variety of organizations that work with kids, Native Americans, and other groups. Are you involved with any organizations that are working with computers and access to computers?
My wife and I support the Ciudad de los Niños in Tijuana. I don't think they are turning them onto

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• All logos and registered trademarks and companies product names are of their respective companies. • ARM is not responsible for any typographical/ technical errors • † for business lease 36-months term 10% buy out computers as yet. They are still dealing with healing the children from psychological and brutal physical abuse of parents not being together.

We help the Larkin Street Youth Project that helps runaway kids. They have 24-hour buildings with two or three nurses, places to eat, places to read, and beds here on Larkin Street.

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I would like to be more involved with bringing computers to kids, American Indians, and others, for those who want to make the choice. It's just tools to teach the younger people that you have options and alternatives. You don't have to always be a dishwasher.

The political and social climate in California has grown more conservative than what it used to be. Your message includes a message of acceptance and hope. As you tour, as you look around, are there things that you see that are hopeful?

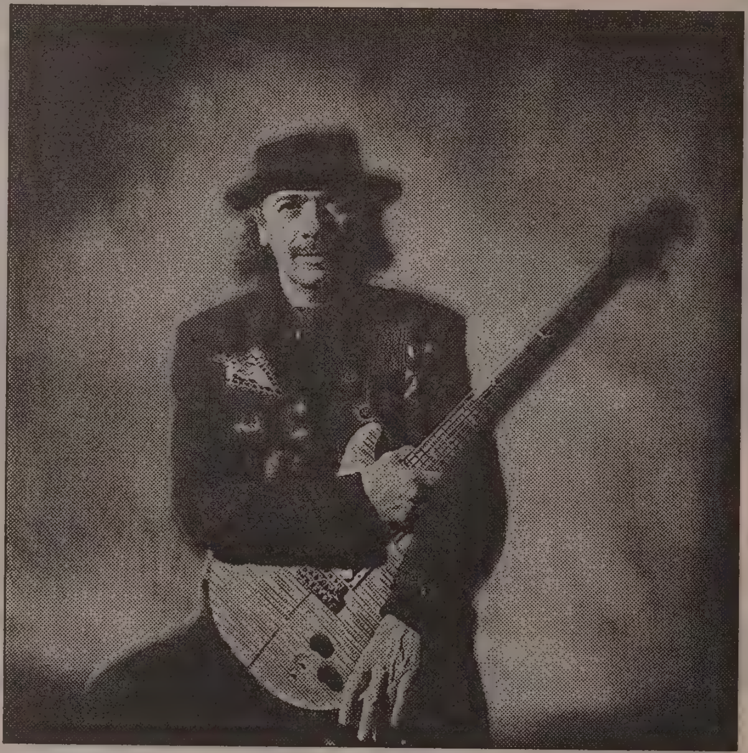
Yes. I see a lot of people out there who understand that to make a change is not by hook or by crook. Obviously, when I go to Jerusalem I realize they are still playing out something. They have not gotten a clue yet that there is a way to do it, there is a way to co-exist and share with dignity, respect, and honor.

Here in California, certain people think that they can call another person an alien when they know in their heart we are all from the same planet. They don't call aliens people from Canada. They only call aliens somebody with darker skin. Which really is the core of the problem. The people who are darker skin are always the ones that are back in the line, period! If you are darken skin, that's the way it is. But it doesn't have to be like that.

What if you connect on the Web site and you say "OK, from the 7th of December to the 12th of December no picking tomatoes, no making beds, no babysitting, no washing dishes, no doing nothing for people in this country until they sit with us and talk to our students, our children." Not to our lawyers, because we don't trust them either. They are already bought out.

There's a way to do it without violence. Three or four days, man, with all the hotels in California, New Mexico, Arizona, Texas. All the beds are not made for three or four days. You know what that costs? So we have a lot of power that we are not using, without violence.

It turns me on to be able to say these things and to do these things via radio, or computer, or faxes, or whatever. There's a way to use this information—the Web site, the computers, and all that kind of stuff—to bring people together to have justice and equality. I really believe it. People don't have to die.



I wanted to let the people know that anybody can bend notes, but it's what you are thinking and what your intentions are while you are hitting that note that takes it far beyond and then you can start affecting people the same way that either Jimi or Peter Green or Eric Clapton affect people.

Are there people or groups that are doing things like that?

I think basically the parents. The parents need to get more involved with a lot of things. For me and you to hear that they are spending $800 million just on the elections is extremely vulgar. It's extremely obscene. When all that money could be going to teaching children how to read correctly. In most places in Europe they speak seven languages—we don't even speak English, we speak bad American.

And they are afraid to teach Spanish when the majority of the cities are like San Jose, Los Angeles [emphasizing the Spanish pronunciation]. How retarded can you be? How closed-minded can you be? What are you afraid of to speak Spanish? It can only make you more. I would like to be able to start all over again in high school and really have teachers with passion that would teach me French and Japanese. You know what I am saying? Because I am not going to lose who I am. You just embrace more.

The only thing that works is how I treat you and how you treat me on a day-to-day basis. To treat each other with dignity, justice, compassion, love...that is the new passport for the new millennium. It's not how much money you got or who do you know. It's going to be the content or how evolved you are spiritually. If you are not with it, you are going to be shipped to another planet where you can play out that duality.

We can talk about all kinds of things, but this gives me a lot of passion. I know it's inevitable that in the future we are not going to be needing money, or flags, or things like that. All these things for me, eventually come out in my concert. I say it between songs. Very concise, but they get the message.

When I was in Texas I said, "Before we leave, this is the last song, just for my own curiosity, how many people here believe in Christ?" A lot of people scream and everything, great.

"How many people have a gun at home? And you are packing right now?" See that's a contradiction. I am not trying to get cute or clever, I am just saying, "Live up to your convictions" You walk in grace or you walk in fear. You can't have it both ways.

In the future, if you can use the albums, the music, the CD-ROM, or whatever to wake people up to their responsibility, great! That's what's real progress is about.

continued on page 304

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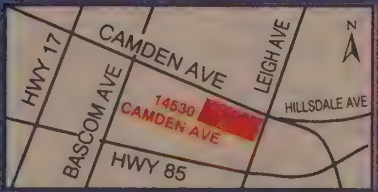

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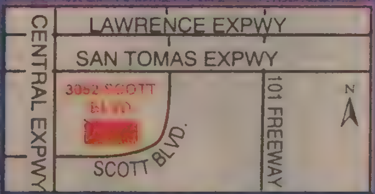

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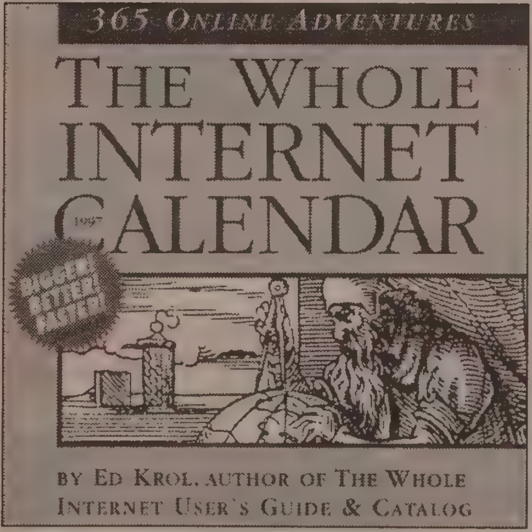
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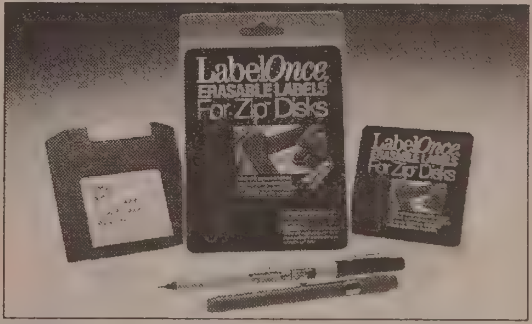
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Advantage Memory has announced the release of new memory upgrades for the AST Ascentia P30 and P50. Advantage Memory, 25A Technology Dr., Irvine, CA 92618-2302. 1-800-245-5299, or URL: *http://www.advantagememory.com* .

Altura Software, Inc. has released QuickHelp 4.0. $495. Altura Software, Inc., 510 Lighthouse Ave., Ste. 5, Pacific Grove, CA 93950. 1-800-473-8405.

Apple Computer, Inc. has announced The Apple Advanced Chinese Input Suite for inputting Chinese characters. $165. Apple Computer, Inc., 1 Infinite Loop, Cupertino, CA 95014-2084. (408)996-1010, or URL: *http://www.apple.com* .

Interlink Electronics, Inc. has introduced Versapad, a semiconductive OEM touchpad. Interlink Electronics, Inc., 546 Flynn Rd., Camarillo, CA 93012. (805)484-1331, or URL: *http://www.interlinkelec.com* .

Kiwi Computer Inc. has introduced a new line of open-architecture OpenNote Model 680C and 680TX notebook PCs. $2,795 (680C); $3,395 (680TX). Kiwi Computer Inc., 2314 Walsh Ave., Santa Clara, CA 95051. (408)492-9188, *kiwinote@kiwicom.com* , or URL: *http://www.kiwicom.com* .

McAfee has introduced Virusscan 2.0 for the Macintosh. SRP: $65.00. McAfee, 2710 Walsh Ave., Santa Clara, CA 95051-0963. (408)988-3832, or URL: *http://www.mcafee.com* .

Opcode Systems, Inc. has announced Musicshop 2.0 for both Macintosh and Windows. $149.95 (Macintosh); $99.95 (Windows). Opcode Systems, Inc., 3950 Fabian Way, Ste. 100, Palo Alto, CA 94303. (415)856-3333, or URL: *http://www.opcode.com* .

Soft Warehouse has released a computer-based mathematical assistant, DERIVE for Windows. Soft Warehouse, 3660 Waialae Ave., Ste. 304, Honolulu, HI 96816-3236. (808)734-5801, or URL: *http://www.derive.com* .

3D Construction Company has released a new low-priced version of their 3D Builder called 3D Builder PowerLite. $189. 3D Construction Company, (423)543-8917, or *70750.633@compuserve.com*.

TYAN Computer has announced the first combination "soft modem"/ISDN board, Netscaliber. $175. TYAN Computer Corporation, 1753 S. Main St., Milpitas, CA 95035. (408)956-8000, or URL: *http://www.tyan.com* .

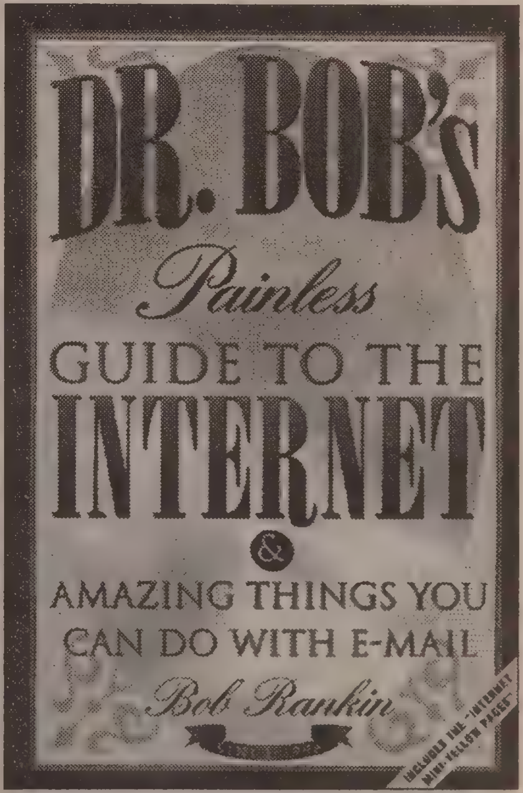
Unidata, Inc., has unveiled RedBack, a Web applications toolkit. Unidata, Inc., 1099 18th St., Ste. 2200, Denver, CO 80202. (303)294-0800, *unidata@unidata.com* ,or URL: *http://www.unidata.com* .

Books

NetLearning: Why Teachers Use the Internet

NetLearning: Why Teachers Use the Internet is an Internet guide for K–12 educators that uses teachers' real-life stories to show how the Net supports learning. Stories are presented of teachers who transformed their classrooms into global learning environments by teaching their students to use the Internet to research information online and contact experts and other students around the world via email. *NetLearning* also describes how the Internet works as a professional development tool for teachers that learn from each other by collaborating on projects and curriculum development. ($25) Songline Studios, 101 Morris St., Sebastopol, CA 95472. (707)829-6500.

Dr. Bob's Painless Guide to the Internet



Dr. Bob's Painless Guide to the Internet, by Bob Rankin, is a complete guide to Internet tools. It contains comprehensive information about the most-used features of the Internet, email, and the World Wide Web. It also has how-to information on connecting to the Internet and using

USENET news, mailing lists, Telnet, and Internet Relay Chat (IRC). Plus, there is a glossary of terms and an Internet Mini-Yellow Pages, which lists many useful Internet resources. ($13) No Starch Press, 401 China Basin St., Ste. 108, San Francisco, CA 94107-2192. (415)284-9900. URL: *http://www.nostarch.com* .

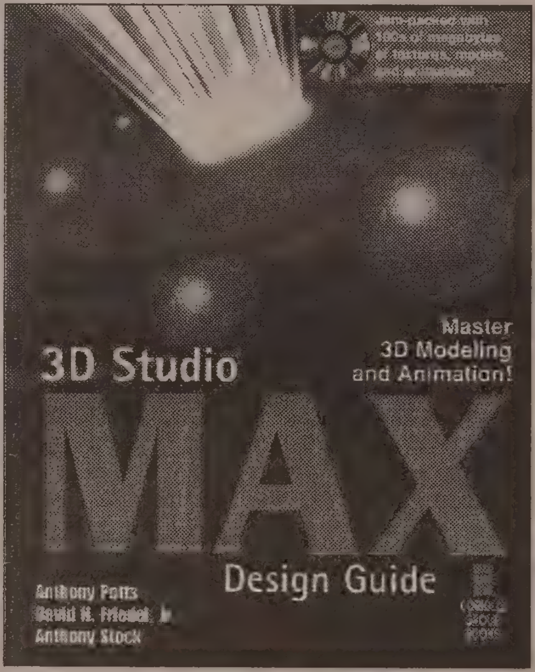
Calculus 1 Using Theorist

Calculus 1 Using Theorist is a book which introduces students to calculus using the algebraic and graphing capabilities of the symbolic math package Theorist. The book covers most of a typical first semester calculus course, gently guiding a student through the first steps of calculus while making the subject relevant through the use of extensive examples. Topics covered include functions, derivatives, rates of change, related rates, Newton's Method, logarithmic differentiation, integration, area under curves, volumes, arc length, and much more. There are also extensive problem sets and a complete description of how to use Theorist to get the most out of the book. ($30) Waterloo Maple, Inc., 450 Phillip St., Waterloo, Ontario, Canada N2L 5J2. (519)747-2373. URL: *http://www.maplesoft.com* .

Digital Media: Publishing Technologies for the 21st Century

Digital Media: Publishing Technologies for the 21st Century gives an in-depth look at the latest techniques for distributing digital information. The book discusses timely topics such as portable document formats, CD-ROM publishing, interactive multimedia, on-demand and distributed digital printing, the Internet, the World Wide Web, and more. Included are discussions of intellectual property rights, telecommunications, ISDN, and wireless communications, as well as future trends to look for in the world of electronic publishing. There is also an analysis of the impact of new media on traditional publishing methods and distribution channels. ($28) Micro Publishing Press, 2340 Plaza del Amo, Ste. 100, Torrance, CA 90501. (310)212-5802.

3D Studio MAX Design Guide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3D Studio
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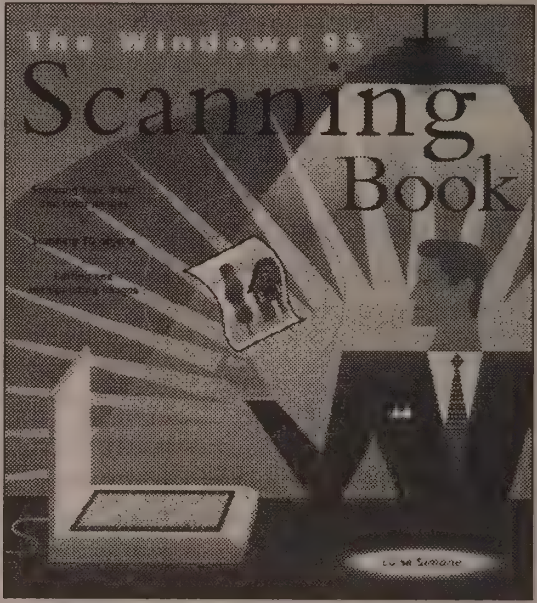
MAX
Design Guide
Anthony Potts
David H. Friedel, Jr.
Anthony Stock

3D Studio MAX Design Guide is an extensive project-oriented guide to the capabilities of the Windows animation package 3D Studio MAX. The book, aimed at intermediate-level modelers and animators, gives designers practical and easy-to-use tips, tricks, and techniques on using the 3D Studio software. Included are graphic tutorials that can be used to create professional animation for realistic video, Web pages, games, and more. The book comes with a CD-ROM that is packed with hundreds of textures, models, and animations. ($40) Coriolis Group Books, 7339 E. Acoma Dr., Ste. 7, Scottsdale, AZ 85260. (602)483-0192. URL: *http://www.coriolis.com* .

The Windows 95 Scanning Book



The Windows 95 Scanning Book is a practical, task-oriented guide to scanning, designed specifically for Windows 95 users. The book teaches readers how to accomplish specific and fundamental tasks, such as determining the correct scanning resolution for printed output or reducing the size of a scanned image. Heavily illustrated, step-by-step instructions guide readers through proper and efficient procedures for a wide range of everyday business applications. The book also features numerous troubleshooting tips on avoiding and resolving common problems such as moiré patterns and show-through on thin paper. ($30) Wiley Computer Publishing, 605 Third Ave., New York, NY 10158.

Painter 4 for Macintosh: Visual QuickStart Guide

Painter 4 for Macintosh: Visual QuickStart Guide serves as a computer-art class that inspires users to explore the many features of Fractal Design's Painter. From abstract to realistic, wild to restrained, this book illustrates a variety of paint strokes and styles for beginning to advanced graphic designers, as well as fine artists who want to transfer their skills to the computer. Painter 4 for Macintosh, with illustrations on every page, visually guides readers through the program using easy-to-follow steps

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Laserjet 4MV, 11x17 600dpi Printer	2895	107
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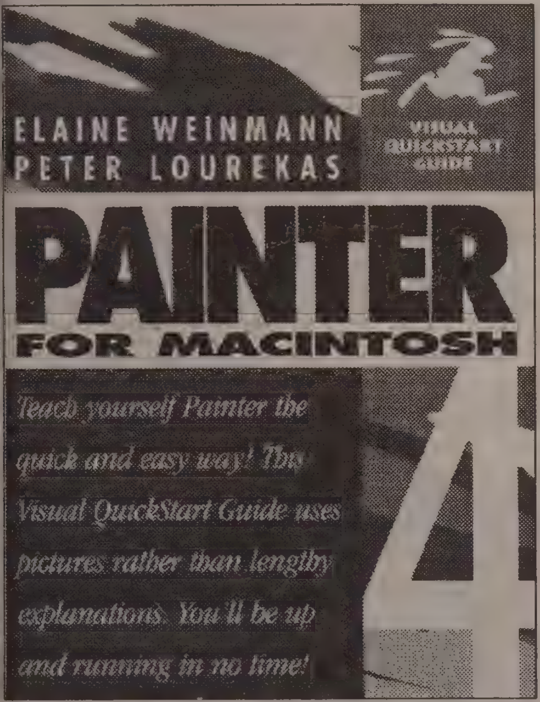
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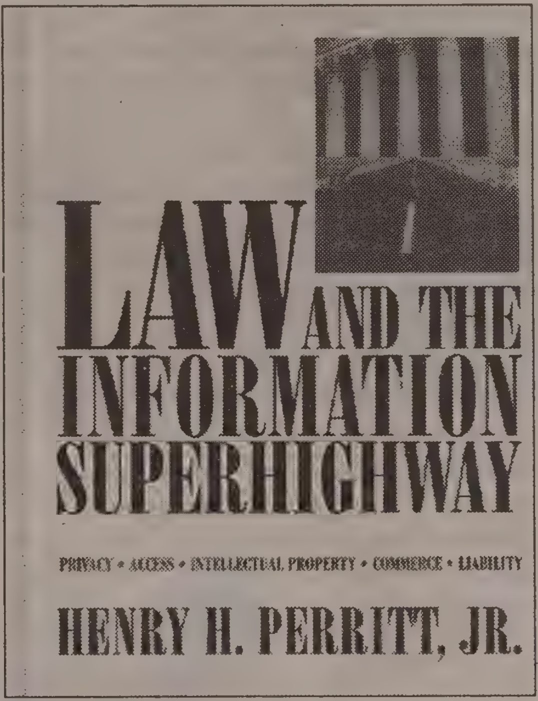
structured as a task-oriented reference. This allows readers to easily look up what they need to know when they need to know it and get straight to work. ($20) Peachpit Press, 2414 Sixth St., Berkeley, CA 94710. 1-800-283-9444. URL: *http://www.peachpit.com* .

NetActivism: How Citizens Use the Internet

NetActivism: How Citizens Use the Internet is designed to show ordinary people who want to reclaim politics—from the neighborhood to the national level—how to use the Internet to make a difference. Written by veteran political activist and former Philadelphia city councilman Ed Schwartz, NetActivism is a no-hype guide that shows readers how to use the Internet to find out what the government really does, as well as how to organize around a cause or a community with online tools like electronic mailing lists, online databases, and Web sites. The book also takes a general look at what contemporary political movements need, whether they be about neighborhood empowerment, ecology, children, or electing candidates to public office, and discusses how Internet tools fit into overall activist strategies. ($25) O'Reilly & Associates, 103 Morris St., Ste. A, Sebastopol, CA 95472. 1-800-998-9938.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The Web Page Recipe Book

In *The Web Page Recipe Book*, authors Barrie Sosinsky and Elizabeth Parker use a cookbook approach to make it easy to create and post a page on the Web. With templates and easy-to-follow cookbook-style instructions, readers with no programming or technical expertise can cut, paste, and drag-and-drop to instantly create their own Web page. The book includes more than forty Web page recipes for recreation or business on an accompanying CD-ROM. The book features recipes for: publications from newsletters to poetry journals, events listings, small and home businesses, and Web pages for kids. ($29.95) Prentice Hall PTR, Simon & Schuster Education Group, One Lake St., Upper Saddle River, NJ 07458.

Electronic Publishing On CD-ROM

Electronic Publishing on CD-ROM, by Steve Cunningham and Judson Rosebush, is a guide to both the technical and operational aspects of CD-ROM publishing. It begins with an overview of the CD-ROM development process, from initial product planning through final production. It examines examples and alternatives for the design, authoring, manufacturing, marketing, and distribution of CD-ROMs. Although it focuses on CD-ROM, the book also looks at electronic publishing on the Web and well as discussing the pros and cons of publishing on CD-ROM and the Internet, and looks at hybrid products that take advantage of both models. The accompanying CD-ROM is full of resources, including the text of portions of the book, freely available software, and more. ($36.95) O'Reilly & Associates, 103 Morris St., Ste. A, Sebastopol, CA 95472. 1-800-998-9938.

The Macintosh Bible, 6th Edition

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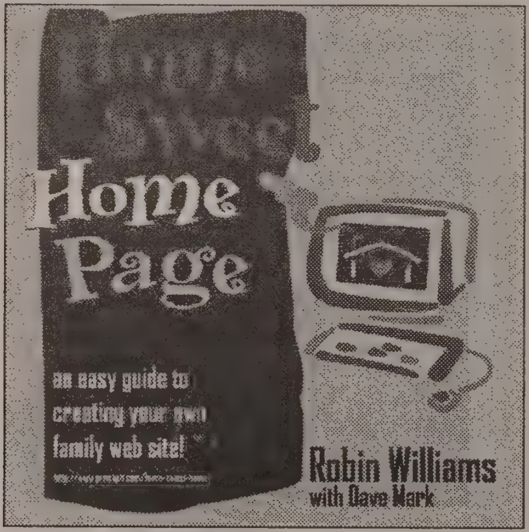
Home Sweet Home Page



Authors Robin Williams (*Beyond the Mac is not a Typewriter, The Non-Designer's Design Book,* and others) and Dave Mark (including *Learn HTML on the Macintosh, Learn C++ on the Macintosh*) have teamed up to write *Home Sweet Home Page.* This clear, easy-to-use guide cuts through the jargon surrounding the World Wide Web and the Internet, and provides creative ideas for Web pages in a friendly, non-technical way. Topics covered include: an introduction to email, the Internet, and the Web; a list of simple tools needed to build your Web site without having to write any code; guidelines for designing the look of your Web pages; and directions on how to use the tools to build a site. It also includes suggestions to make your Web site a place the entire family or group will want to participate in and visit often. ($14.95) Peachpit Press, 2414 Sixth St., Berkeley, CA 94710. 1-800-283-9444. URL: *http://www.peachpit.com* .

FileMaker Pro 3.0: A Developer's Guide

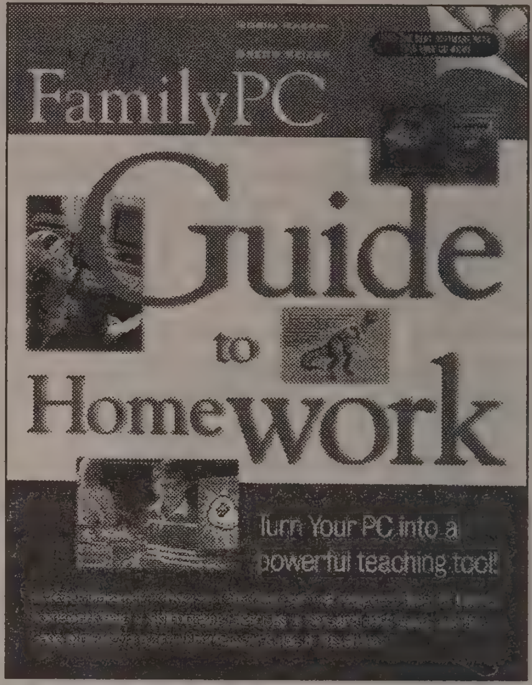
Written by Claris "insider" Alex Kennedy, this book is aimed at database designers and developers who need to master the power and functionally of FileMaker Pro 3.0, a fully relational database management system. Opening with an introduction to the basic concepts behind relational theory, the book progresses to consider the issues involved in building a successful database. The second part of the book is a comprehensive description of the features of FileMaker Pro 3.0. The book is best read while working with FileMaker so that you can try out some of the ideas and examples included on the accompanying Macintosh CD-ROM. ($39.95) Addison-Wesley Developers Press, Addison-Wesley Publishing Co., One Jacob Way, Reading, MA 01867-3999. URL: *http://www.aw.com/devpress* .

The VRML 2.0 Handbook

With VRML 2.0, you can create robots and people that walk and run, dogs that bark, and gurgling streams. You can design objects that react to user actions, such as doors that open when clicked. You can include sensors that respond when the user approaches a certain area—triggering an alarm, for instance, or starting an animation. The VRML 2.0 Handbook guides readers through the development of interactive, animated 3-D worlds, using a VRML reconstruction of the Aztec city Tenochtitlan. This guide offers practical, platform-independent tips and examples from the experts at Silicon Graphics, Inc. Detailed examples and diagrams provide a solid foundation in VRML 2.0 for a wide range of content creators, from artists and designers with little programming background to seasoned computer experts with modest graphics skills. ($29.95) Addison-Wesley Developers Press, Addison-Wesley Publishing Co., One Jacob Way, Reading, MA 01867-3999. URL: *http://www.aw.com/devpress* .

The FamilyPC Guide To Homework

Guide To Homework, by Gregg Keizer, is a hands-on volume that shows parents how to turn the family PC into a powerful learning tool for children of all ages. Organized by subject, with hundreds of colorful illustrations and many special learning projects, the book offers practical advice, software tips, and software recommendations based on FamilyPC's user testing and evaluation process. Written for children ages 3 to 15, it covers subjects including reading, writing, math, geography, history, science, art, music, and languages. It also offers advice for using CD-ROMs and online sources. ($24.95) Hyperion, 114 Fifth Ave., New York, NY 10011. (212)633-4400.


The FamilyPC Guide to Homework
Turn Your PC into a powerful teaching tool!

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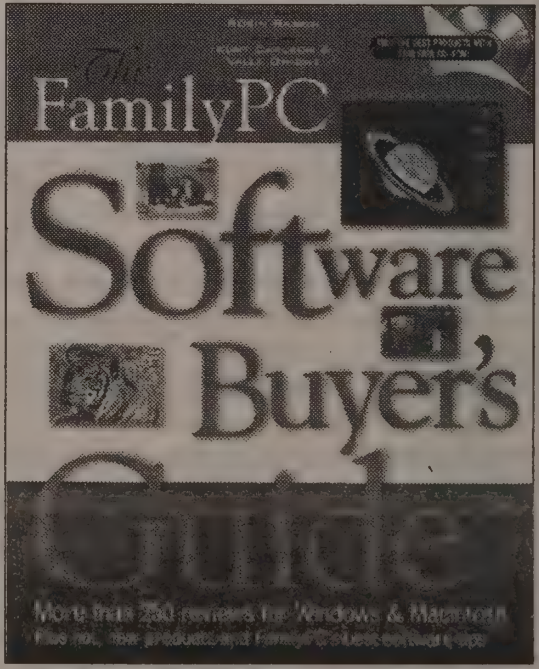
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continued on page 144

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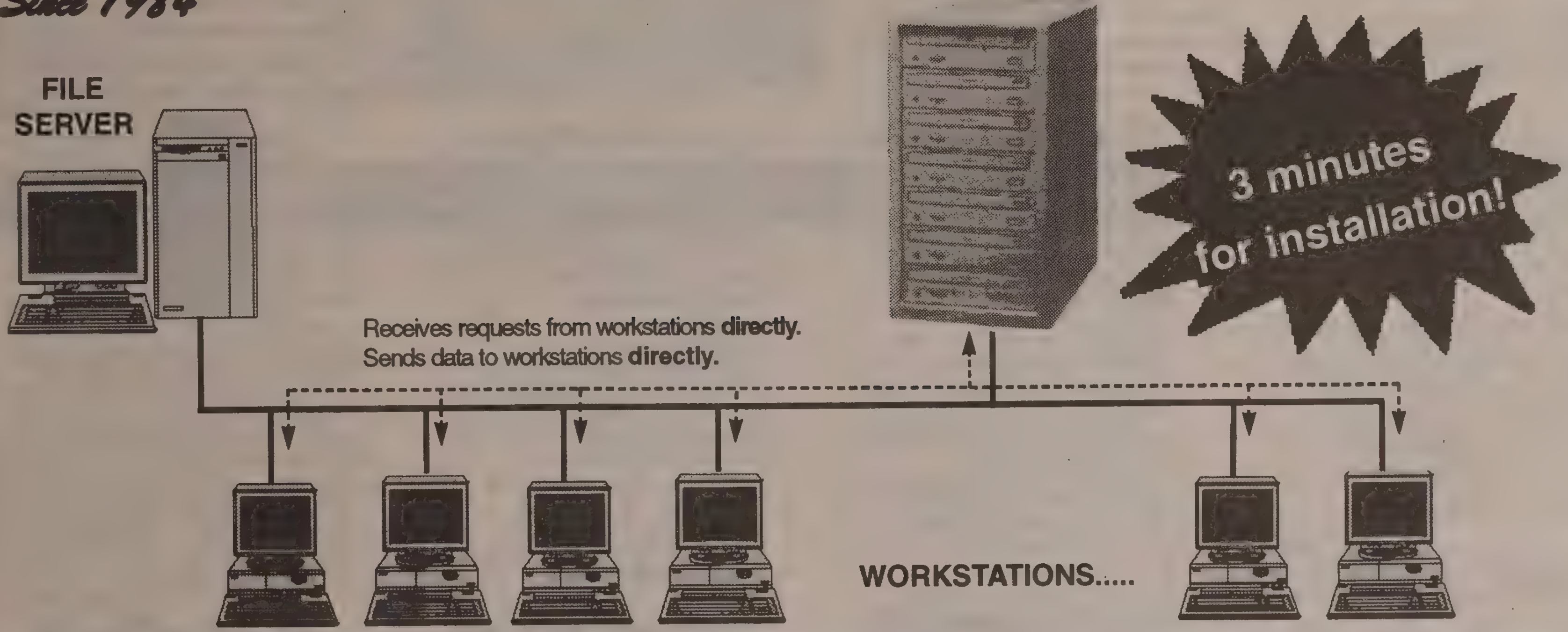
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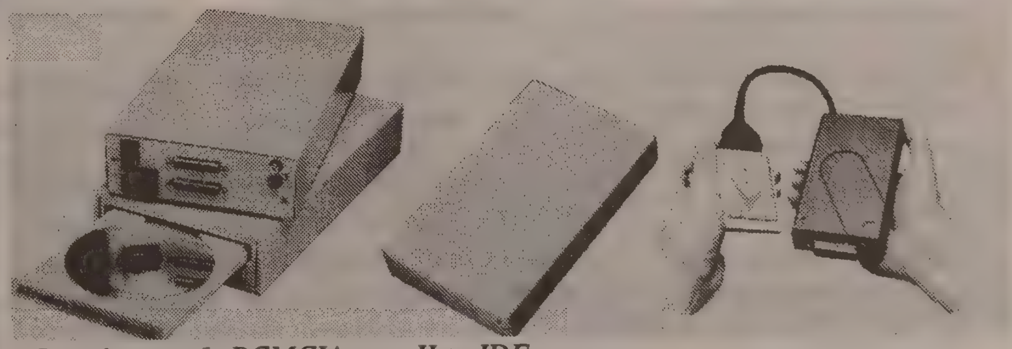

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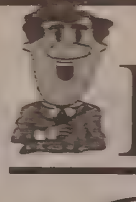

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- Diamond 3D 2000 4Mb Video DRAM
- 12X EIDE CD-ROM Drive
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- 10X EIDE CD-ROM Drive
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- PMPO: 80 Watts Speakers
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- Princeton Graphic EO-70 (17" Monitor 1280x1024 NI 0.28dpi)
- Diamond Stealth 64 2Mb Video DRAM
- 8X SCSI-II CD-ROM Drive
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- Logitech MouseMan Combo & Mouse Pad
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- ATI Mach 64 2Mb Video VRAM
- 8X SCSI-II CD-ROM Drive
- Creative Labs 16 PnP
- Logitech Firstmouse & Mouse Pad
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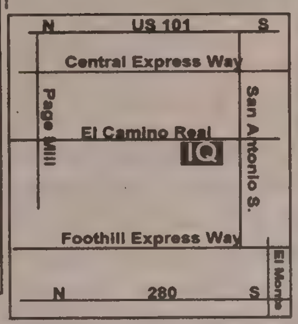

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- Diamond 3D 2000 4Mb Video DRAM
- 10X EIDE CD-ROM Drive
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- 12X EIDE CD-ROM Drive
- Logitech MouseMan Combo & Mouse Pad
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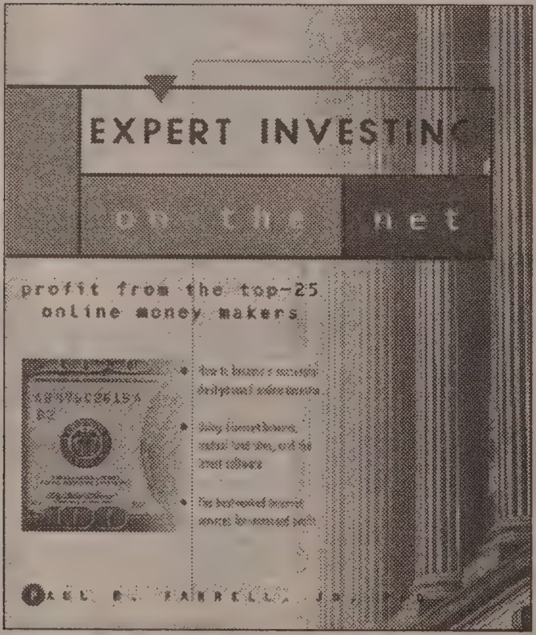

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Laptops

TravelMate 6050

The TravelMate 6050 features the Intel 150MHz Pentium processor, 256K L2 cache, 16MB of high-speed EDO memory, and full PCI bus architecture for fast performance. Multimedia capabilities include Zoomed Video (ZV) port technology for advanced applications such as MPEG full-motion video playback, modular 6X CD-ROM, and 16-bit full duplex audio. It is fully compatible with Windows NT Workstation 4.0 and is bundled with a 28.8Kbps modem. Other features include a modular bay that houses a multitude of devices, such as a floppy disk drive, CD-ROM player, a second 2GB hard disk drive, and an enhanced Lithium-Ion battery. As with other TravelMate computers, the 6050 includes infrared wireless communications technology allowing users to transfer files, synchronize systems, and print to other infrared-equipped devices and printers. ($5400) Texas Instruments, Inc., P.O. Box 6102, MS 3242, Temple, TX 76503. 1-800-TI-TEXAS. URL: *http://www.ti.com* .

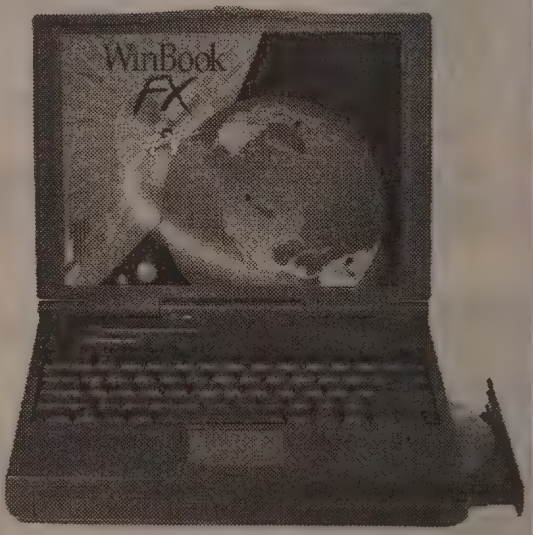
Micro Express NP133A

The MicroExpress NP133A multimedia notebook is ideal for taking on sales presentations as well as substituting as your primary desktop system. Built around an Intel Pentium, 133MHz processor, it features 16MB of RAM, 265K Level2 Cache, 1.3GB hard drive, 12.1" active matrix color SVGA display, built-in touchpad, and 16-bit sound with built-in stereo speakers. It also comes standard with an internal 28.8 fax/modem, IrDA-compatible infrared interface, 6X CD-ROM drive, as well as a Type III PC-Card slot and a Type II PC-Card slot. The battery is NiMH, with a two hour quick-recharge capability. ($2795) Micro Express, Inc., 1881 Kaiser Ave., Irvine, CA 92713. 1-800-852-1400. URL: *http://www.wpages.com/microexpress/* .

Panasonic CF-25 Notebook

The CF-25 combines rugged construction with the performance of a 133MHz Pentium processor, PCI Bus, and 1.35GB hard disk. The 100% magnesium alloy case offers twenty times the strength of typical plastic cases. The hard disk and floppy drive are mounted in special shock-absorbing compounds that reduce the transmission of external shock to less than 1/3 that of conventional mountings. Similarly, the LCD panel is securely mounted to the magnesium case and is protected by an internal damping system. The keyboard and touchpad are sealed to prevent water from entering the internal circuitry. The CD-25 is well-suited to harsh working conditions such as construction, manufacturing, service and maintenance, law enforcement, and security operations. ($3869) Panasonic Personal Computer Co., Two Panasonic Way, Panazip 7D-6, Secaucus, NJ 07094.

Winbook FX Pentium 150



The new Winbook FX P150 notebook is available in five versions, with the top-of-the-line model featuring a 150MHz Intel Pentium processor, 32MB EDO RAM, 256K synchburst cache, a 2.0GB hard drive, a 12.1" active matrix

continued on page 182

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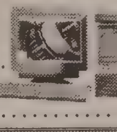

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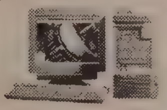

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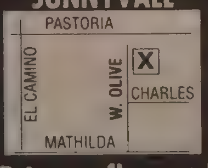

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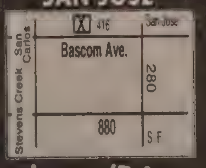

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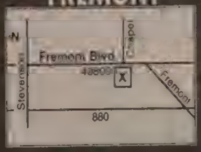

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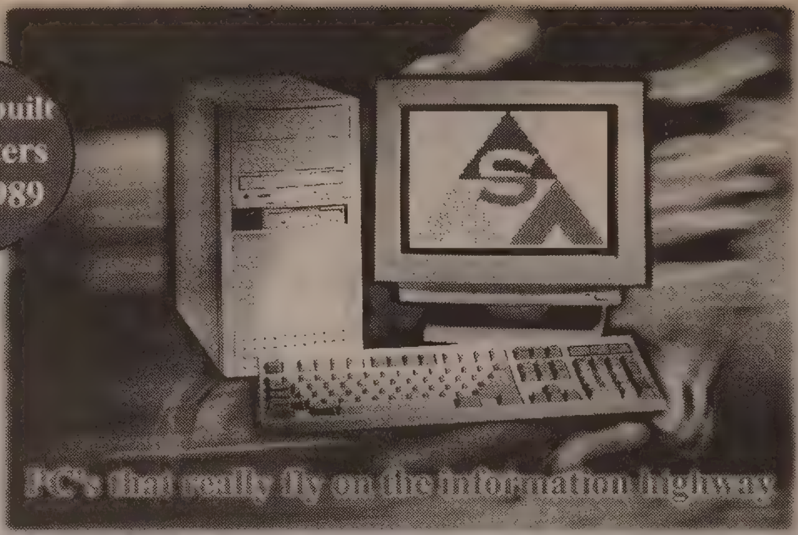

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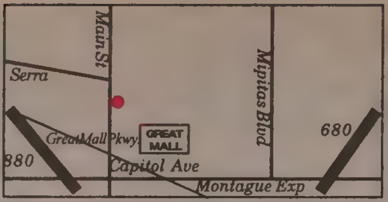

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Focus 2001 Keyboard
Logitech PS2 Mouse+Pad
MGC 15" NI (1280x1024,.28dp)
Mitsumi 8xi Eide CD Rom
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for 512K	*2826*
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Adaptec 2940 Ultra Wide SCSI
Quantum **Atlas 2.1GB Wide** SCSI (8MS, 7200RPM) HD
1.44 TEAC FD
ATX Medium Tower Case
104 Mitsumi KB w/ WIN 95 Key
Microsoft PS Mouse & Pad
MGC 15" NI (1280x1024, .28dp)
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Mini Tower Case
104 Mitsumi KB w/ WIN 95 Key
MS Compatible Mouse & Pad
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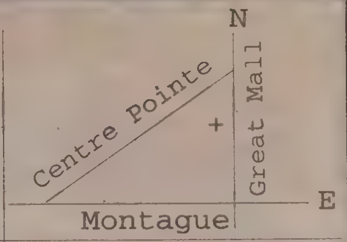

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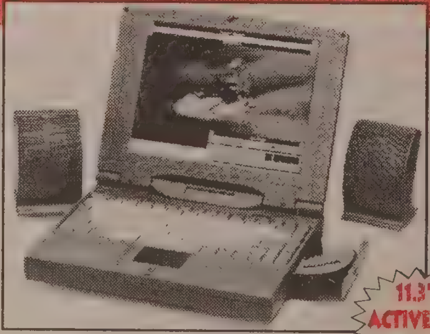

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8X CD-ROM

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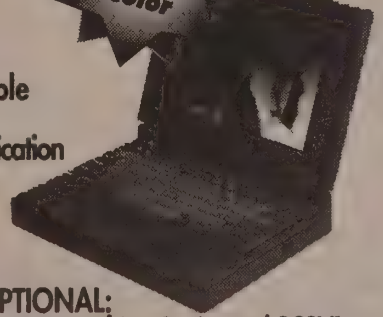

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- ✓ Full Size Docking Station

MHz	100	120	133
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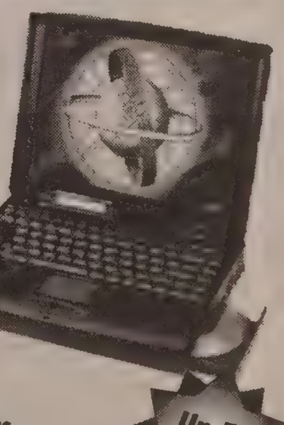

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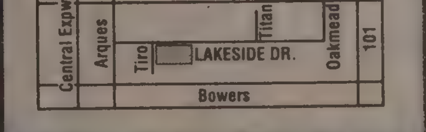

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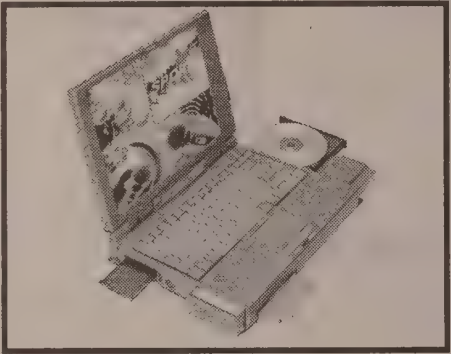

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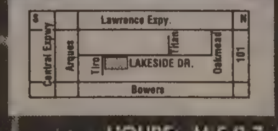

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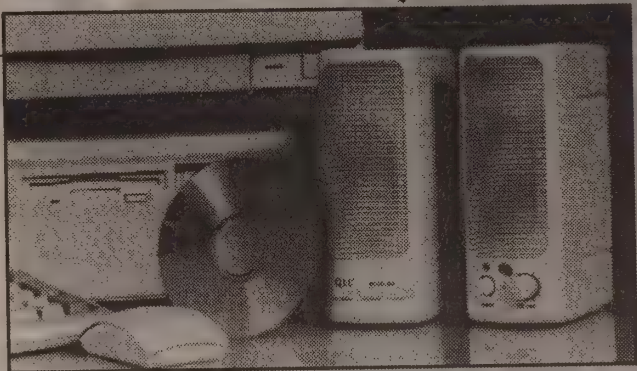

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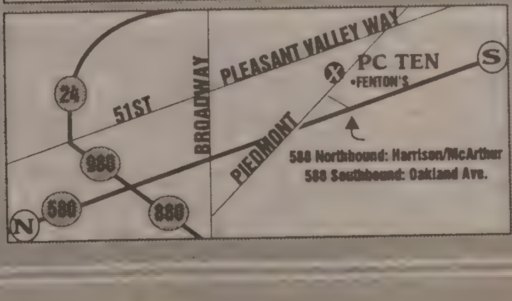

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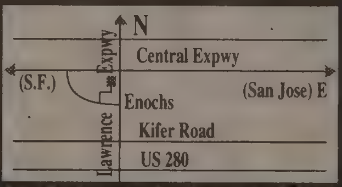

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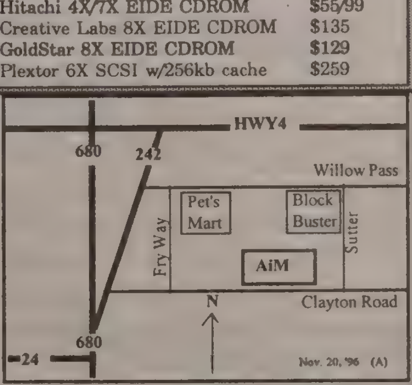

Product Reviews

Book Review

Wired Women: Gender and New Realities in Cyberspace

By: Lynn Cherney and Elizabeth Reba Wiese, editors
Published By: Seal Press
List Price: $16
Review By: Anna Couey

Wired Women, edited by Lynn Cherney and Elizabeth Reba Wiese, presents a view of the Internet as experienced by very different women. Some are vocal feminists, some are less so. They are scientists, artists, journalists, educators, and graduate students who somewhere along the line happened to get online. Elizabeth Wiese plugs into a local virtual community that makes her feel at home in a new town. Ellen Ullman tells the story of a romance that blossomed by email, and the dislocations between online and offline interaction in the computer programming community. Judy Malloy and Cathy Marshall write about an interactive art/research collaboration they produced over the Internet. Stephanie Brail describes her experience being the target of online sexual harassment, and the importance of addressing potentially life-threatening harassment without restricting freedom of speech. Shannon McRae reveals eroticism in virtual sex, where words constitute the shared reality of sexual experience. Karen Coyle exposes the social myths propagated by the computer industry about women's abilities and inclinations to use computers. Michele Evard discusses the online communications behavior she observed among 4th and 5th graders who used online conferencing software to ask questions and assist their peers with a class project. Other contributors discuss social interactions in online subcultures, communities of interest, and exclusively women's discussion areas located on USENET and mailing lists, as well as experimentation with gender that online systems make possible, and their impact on those who play. What emerges from these stories is a portrait of the Net that is as varied and contradictory as real life, where sexism and new gender constructs co-exist.

The book is fascinating for women who are online, who will probably alternate, as I did, between flashes of recognition, disagreements with particular perspectives, and wonderment at experiences that are completely foreign to their own. For women who are not online, or anybody else, for that matter, *Wired Women* tells it like it is, refreshingly cutting through the hype, hysteria, pie-in-the-sky visions and overly academic theories that seek to explain what the Internet means for women. One thing that is lacking, as the editors acknowledge at the beginning of the book, is perspectives by wired women of color. Given the history of minority exclusion in the feminist movement, this is troubling. However, *Wired Women* is articulate and chock-full of insights on a subject rarely covered at all, much less covered with honesty and depth—it's well worth a read. (Seal Press, 3131 Western Ave., #410, Seattle, WA 98121-1041)

CD-ROM Review

Adobe File Utilities

Published By: Adobe Systems
List Price: $149
Review By: Matthew Leeds

The Adobe File Utilities are a set of file conversion, comparison, and viewing utilities. A single CD-ROM supports Macintosh, DOS, Windows 3.1, Windows 95, and several flavors of UNIX. This is essentially a bundle of applications originally available from Mastersoft: Word for Word, DocuComp and Viewer 3.1/95.

Word for Word is a document conversion utility. It handles word processing, spreadsheet, graphics, and database files from a large variety

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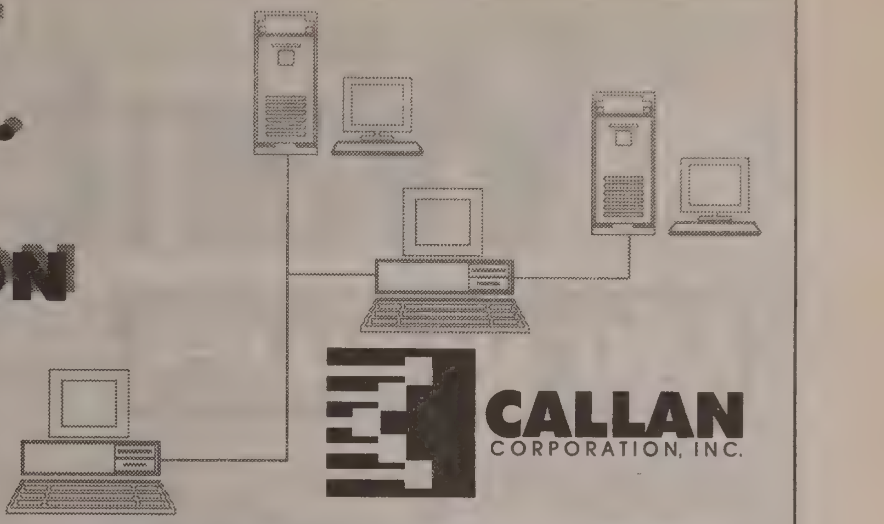

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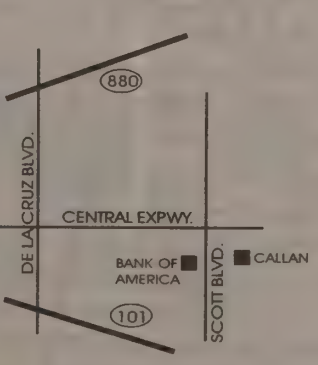

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of applications, and also handles HTML conversions. For most files the formatting and layout information is preserved.

DocuComp identifies changes between two versions of a document, and marks all text that has changed. It detects insertions, deletions, moves, and replacements. You can view the two versions side-by-side, or create a composite report of all changes (No DOS or UNIX version).

Viewer for Windows can display, print, and manage files without the creating application. Viewer can unzip PKZip files, UUEncode and UUDecode files, and even display HTML files. Files can be copied, moved, deleted, or printed from within Viewer.

The Windows version of each of the applications can be associated with relevant applications. For example, DocuComp can be called from within MS Word, or Viewer can be called from an email program.

While it's clear that the Windows version of Adobe File Utilities offers the most features, the utility of file conversion for any of the platforms comes in very handy. The HTML conversion works very well, and with the Web in ascendancy it is a very useful feature. (Adobe Systems, Inc., 1585 Charleston Rd., Mountain View, CA 94039-2103.)

Multimedia Software Review

Fractal Dabbler 2

Published By: Fractal Design
Format: Hybrid Mac or Windows CD-ROM
List Price: $69; Upgrades from Dabbler 1, $29
Review By: Pamela Mason

Preston Blair was the Disney animator who drew the charming hippo and alligator dance in the movie *Fantasia.* His animation methods are timeless and remain a standard part of today's animation industry. You can study and learn these basic techniques for animation and cartooning with the new online tutors in Dabbler 2 done in collaboration with Walter Foster Publishing: *Cartoon Animation* by Preston Blair and *Drawing Cartoons* by cartoonist Bruce Blitz. The lessons are also a perfect example of the benefits of translating books onto CD-ROM. Drawing exercises from inert book pages are brought to life as animated examples of classic animation principles such as squash and stretch, line of action, and secondary action.

Dabbler's Flipbook feature should be in every animation package. With its adjustable onion-skinning (tracing paper) it is so simple to use that it would be easy to miss what a powerful tool this really is. Just as a cel animator uses paper, you can toggle the transparency and see up to four frames of your flipbook at a time, adjusting exactly how many frames you see in front of and behind the current frame, with all frames in registration. You can play and test your animation (up to 100 pages) as you work on it and also adjust the speed with the Flipbook controls. On the PC, you can export AVI movies; on the Mac, Quicktime movies. It can import a wide variety of file formats.

continued on page 180

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FOR THE SELECTION:

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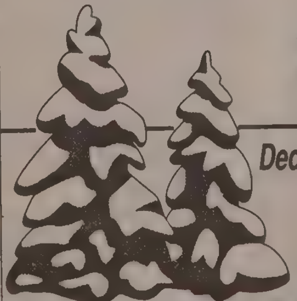

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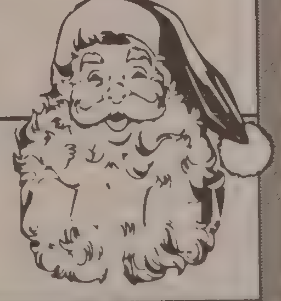

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HIGH PERFORMANCE MULTIMEDIA COMPUTER SYSTEMS

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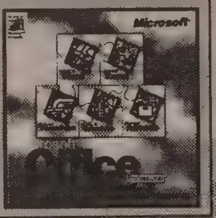
Microsoft Office Professional for Windows 95

$299 (a $499 Value!) with a Computer System Purchase, you can have the entire Microsoft Office Professional suite of software. Includes: MS Word, Execl, PowerPoint, Schedule+ & Access, fully integrated with each other to run together seamlessly!



Microsoft Windows 95

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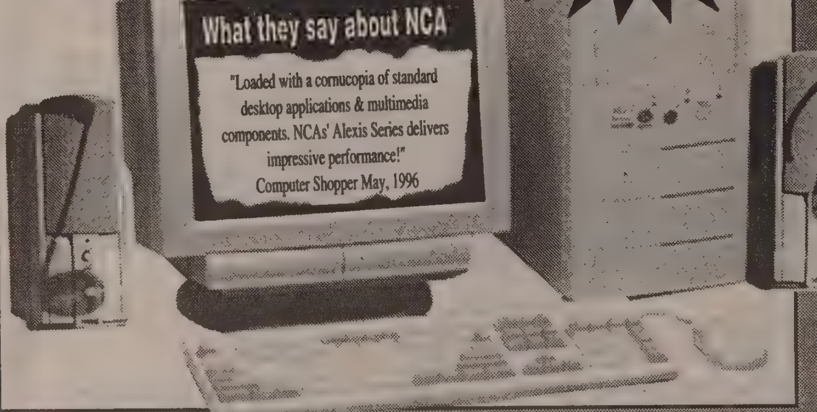

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3.2GB/32MB EDO RAM • 512K Pipeline Burst Cache • 33.6 Fax/Modem

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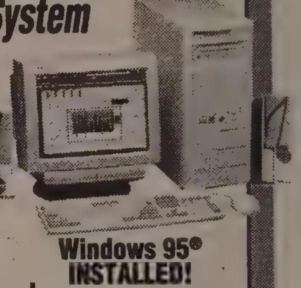
- Elegant 9 bay Mid-tower case
- 250W power supply
- **512K PIPELINE BURST** cache
- **Intel P200** CPU with Heat Sink, Socket 7, **TRITON** chipset
- **32MB EDO RAM/72 pin SIMMs** exp. to 128MB
- Plug & Play ready, PCI IDE I/O On-board
- **Matrox Millennium 64-bit PCI 4MB** WRAM video card
- **3.2GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- Internal **EIGHT-SPEED** Enhanced IDE CD-ROM drive
- **Creative Labs** SoundBlaster 32 **Wavetable** sound card
- **USRobotics 33.6Kbps Plug and Play,** Internal Fax/Modem w/ **Voice**
- **Microsoft** Mouse
- 101-Key keyboard
- **Yamaha** YST-M7 speakers
- #987732054733

Monitor not included



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Windows 95® INSTALLED!

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ALEXIS IV SERIES - NCAMGP166-8X-33.6

PENTIUM 166MHZ PCI

3.2GB/32MB EDO RAM • 512K Pipeline Burst Cache • 33.6 Fax/Modem

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NEW!

- Elegant 9 bay Mid-tower case
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- **512K PIPELINE BURST** cache
- **Intel P166** CPU with Heat Sink, Socket 7, **TRITON** chipset
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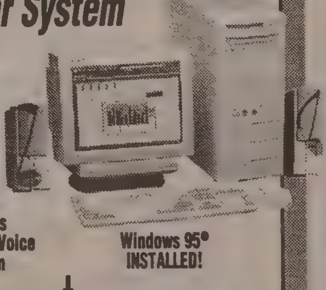
- Plug & Play ready, PCI IDE I/O On-board
- **Matrox Mystique 3D 64-bit PCI 2MB** SGRAM video card
- **3.2GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- Internal **EIGHT-SPEED** Enhanced IDE CD-ROM drive
- **Creative Labs** SoundBlaster 32 **Wavetable** sound card
- **USRobotics 33.6Kbps Plug and Play,** Internal Fax/Modem w/ **Voice**
- **Microsoft** Mouse
- 101-Key keyboard
- **Yamaha** YST-M7 speakers
- **3D Games:** Mech Warrior 2, Destruction Derby 2, Scorched Planet, MPEG & 3D Web Browser software
- #987732170099

Monitor not included



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ALEXIS IV SERIES - NCAMGP133-8X-33.6

PENTIUM 133MHZ PCI

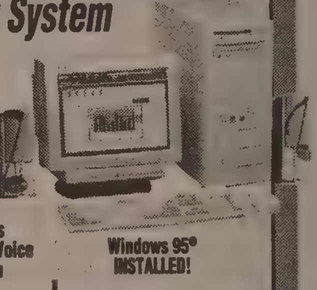
2.1GB/16MB EDO RAM • 256K Pipeline Burst Cache • 33.6 Fax/Modem

EIGHT-Speed Multimedia Computer System

NEW!

- Elegant 9 bay Mid-tower case
- 250W power supply
- **256K PIPELINE BURST** cache, upgradeable to 512K
- **Intel P133** CPU with Heat Sink, Socket 7, **TRITON** chipset
- **16MB EDO RAM/72 pin SIMMs** exp. to 128MB
- Plug & Play ready, PCI IDE I/O On-board
- **Matrox Mystique 3D 64-bit PCI 2MB** SGRAM video card
- **2.1GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- Internal **EIGHT-SPEED** Enhanced IDE CD-ROM drive
- **Creative Labs** SoundBlasterVibra 16 16-bit sound card
- **USRobotics 33.6Kbps Plug and Play,** Internal Fax/Modem w/ **Voice**
- **Microsoft** Mouse
- 101-Key keyboard
- **Yamaha** YST-M7 speakers
- **3D Games:** Mech Warrior 2, Destruction Derby 2, Scorched Planet, MPEG & 3D Web Browser software
- #987732564317

Monitor not included



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HIGH PERFORMANCE MULTIMEDIA COMPUTER SYSTEMS

Low Price Guarantee!*

Microsoft Office Professional for Windows 95

$299 (a $499 Value!) with a Computer System Purchase, you can have the entire Microsoft Office Professional suite of software. Includes: MS Word, Execl, PowerPoint, Schedule+ & Access, fully integrated with each other to run together seamlessly!

Microsoft Windows 95

Pre-Built
Ready To Run!
Take It Home Today

Now Featuring
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Video Cards!

What they say about NCA!
"NCA has assembled a system filled with quality components that deliver impressive performance at a reasonable price!"
Computer Shopper May, 1996

intel inside pentium

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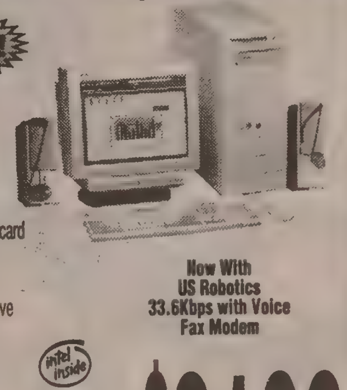
ALEXIS IV SERIES - NCAMGP200 8X-33.6

PENTIUM 200MHZ PCI

2.1GB/16MB EDO RAM - 256K Pipeline Burst Cache - 33.6 Fax/Modem

EIGHT-Speed Multimedia Computer System

NEW!



- Elegant 9 bay Mid-tower case
- 250W power supply
- 256K PIPELINE BURST cache upgradeable to 512K
- Intel P200 CPU with Heat Sink
- Socket 7, TRITON chipset
- 16MB EDO RAM/72 pin SIMMs exp. to 128MB
- Plug and Play ready, PCI IDE I/O On-board
- Matrox Mystique 3D 64-bit PCI 2MB SGAM video card
- 2.1GB Enhanced IDE hard drive
- 1.44MB floppy drive
- Internal EIGHT-SPEED Enhanced IDE CD-ROM drive
- Creative Labs SoundBlaster Vibra 16 16-bit sound card
- USRobotics 33.6Kbps Plug & Play, Internal Fax Modem w/ voice
- Microsoft Mouse
- 101-Key keyboard
- Yamaha YST-M7 speakers
- 3D Games: Mech Warrior 2, Destruction Derby 2, Scorched Planet, MPEG & 3D Web Browser software
- #987733129027
- Monitor not included

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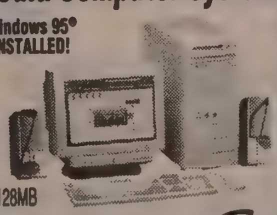
ALEXIS IV SERIES - NCAMGP166-8X-33.6

PENTIUM 166MHZ PCI

2.1GB/16MB EDO RAM - 256K Pipeline Burst Cache - 33.6 Fax/Modem

EIGHT-Speed Multimedia Computer System

Windows 95® INSTALLED!



- Elegant 9 bay Mid-tower case
- 250W power supply
- 256K PIPELINE BURST cache, upgradeable to 512K
- Intel P166 CPU with Heat Sink, Socket 7
- TRITON chipset
- 16MB EDO RAM/72 pin SIMMs exp. to 128MB
- Plug and Play ready, PCI IDE I/O On-board
- Matrox Mystique 3D 64-bit PCI 2MB SGAM video card
- 2.1GB Enhanced IDE hard drive
- 1.44MB floppy drive
- Internal EIGHT-SPEED Enhanced IDE CD-ROM drive
- 16-Bit Generic sound card
- 33.6Kbps Internal Fax/Modem
- Microsoft Mouse
- 101-Key keyboard
- Yamaha YST-M7 speakers
- 3D Games: Mech Warrior 2, Destruction Derby 2, Scorched Planet, MPEG & 3D Web Browser software
- #987734716226
- Monitor not included

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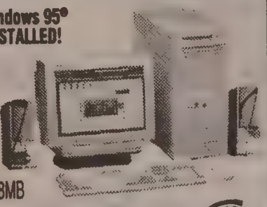
ALEXIS IV SERIES - NCAMGP-133-8X-33.6

PENTIUM 133MHZ PCI

2.1GB/16MB EDO RAM - 256K Pipeline Burst Cache - 33.6 Fax/Modem

EIGHT-Speed Multimedia Computer System

Windows 95® INSTALLED!



- Elegant 9 bay Mid-tower case
- 250W power supply
- 256K PIPELINE BURST cache, upgradeable to 512K
- Intel P133 CPU with Heat Sink, Socket 7
- TRITON chipset
- 16MB EDO RAM/72 pin SIMMs exp. to 128MB
- Plug and Play ready, PCI IDE I/O On-board
- Matrox Mystique 3D 64-bit PCI 2MB SGAM video card
- 2.1GB Enhanced IDE hard drive
- 1.44MB floppy drive
- Internal EIGHT-SPEED Enhanced IDE CD-ROM drive
- 16-Bit Generic sound card
- 33.6Kbps Internal Fax/Modem
- Microsoft Mouse
- 101-Key keyboard
- Yamaha YST-M7 speakers
- 3D Games: Mech Warrior 2, Destruction Derby 2, Scorched Planet, MPEG & 3D Web Browser software
- #987733552566
- Monitor not included

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ALEXIS IV SERIES - NCAMGP120-8X-33.6

PENTIUM 120MHZ PCI

850MB/8MB EDO RAM - 256K Pipeline Burst Cache - 33.6 Fax/Modem

EIGHT-Speed Multimedia Computer System

Windows 95® INSTALLED!

- Elegant 9 bay Mid-tower case
- 250W power supply
- 256K PIPELINE BURST cache, upgradeable to 512K
- Intel P120 CPU with Heat Sink, Socket 7
- TRITON chipset
- 8MB EDO RAM/72 pin SIMMs exp. to 128MB
- Plug and Play ready, PCI IDE I/O On-board
- Matrox Mystique 3D 64-bit PCI 2MB SGAM video card
- 850MB Enhanced IDE hard drive
- 1.44MB floppy drive
- Internal EIGHT-SPEED Enhanced IDE CD-ROM drive
- 16-Bit Generic sound card
- 33.6Kbps Internal Fax/Modem
- Microsoft Mouse
- 101-Key keyboard
- Yamaha YST-M7 speakers
- 3D Games: Mech Warrior 2, Destruction Derby 2, Scorched Planet, MPEG & 3D Web Browser software
- #987734879402
- Monitor not included

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- Fast 12.5ms
- 128K Cache

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- 11ms

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2.0GB SCSI-II 3.5" HARD DRIVE
- MC4421S
- Aries 2
- 512K Cache
- 8.5ms

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- SCSI cable & terminator

$479.95

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2.1GB SCSI-II 3.5"X1" HARD DRIVE
- 32160
- 8.5ms
- 5400 RPM
- 5 yr. warranty

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Tornado Series
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- FWB Toolkit (MAC only)
- SCSI cable & terminator

$429.95

MICROPOLIS
4.3GB SCSI-II 3.5" HARD DRIVE
- MC3243S
- 512K Cache
- 8.9ms

$859.95

External SCSI Drive For PC or MAC
Tornado Series
INCLUDES:
- FWB Toolkit (MAC only)
- SCSI cable & terminator

$959.95

MICROPOLIS
9.1GB SCSI-II 5.25" HARD DRIVE
- MC1991
- 512K Cache
- 8.5ms

$1699.95

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- M1612TAU
- 11ms
- 64K cache
- Fast ATA-2

$119.95

FAST ATA 2

Seagate

635MB IDE 3.5"X1" HARD DRIVE

- ST3630A
- 14ms
- 64K cache
- Fast ATA

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FAST ATA

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- 11ms
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- 5400RPM
- Fast ATA-2

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- 128K Cache
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- 14ms
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- 10ms
- 128K cache
- 5400RPM
- Fast ATA-2

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- 128K cache
- Enhanced IDE

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WESTERN DIGITAL

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- 12ms
- 128K cache
- Enhanced IDE

$299.95

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WESTERN DIGITAL

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- 128K cache
- 5200RPM
- Enhanced IDE

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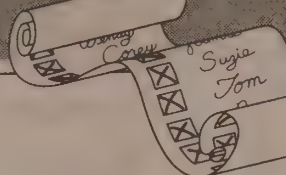
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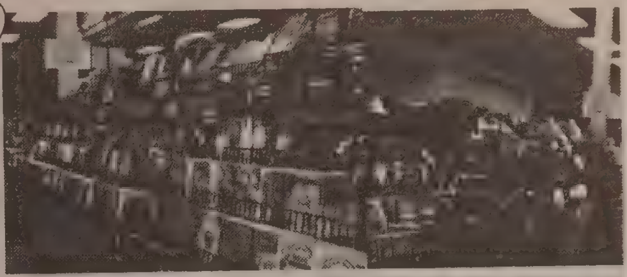

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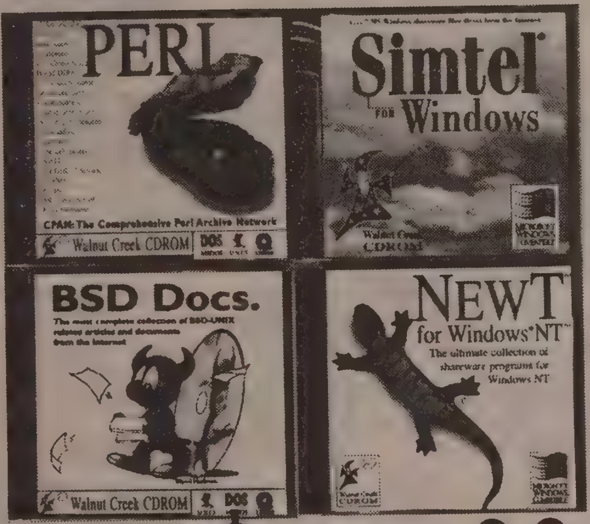
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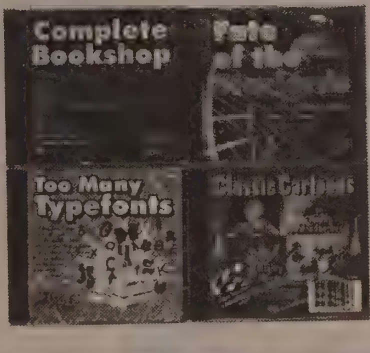
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1A

HIGH QUALITY PRODUCTS

Low Price Guarantee!*

matrox

3D, Entertainment & Multimedia Accelerator

Matrox Mystique

NEW!

New Lower Prices!

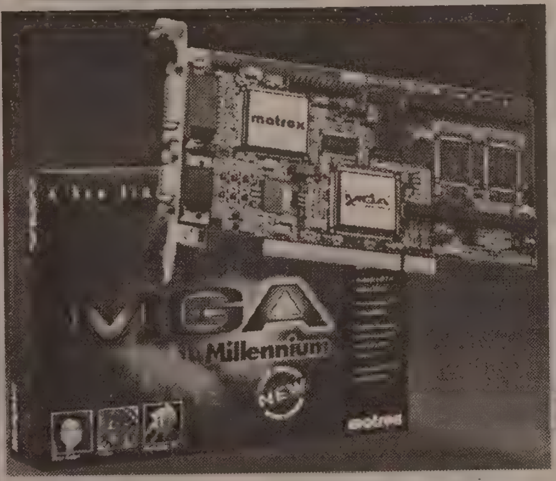
- ◆64-bit graphics accelerator for mainstream business & home
- ◆2MB or 4MB base boards (2MB upgradeable to 4MB)
- ◆Up to 1280X1024 resolution in 8, 16, 24-bit color
- ◆3D texture mapped games
- ◆CLUT 4, CLUT 8 & RGB texture support
- ◆170Hz ramdac
- ◆Windows 95, 3.11 & DOS
- ◆Bundled with: Mech Warrior 2, Destruction Derby 2 & Scorched Planet
- ◆Video upgrades available this fall

MYSTIQUE
3D Entertainment and Multimedia Accelerator
matrox

2MB PCI Version $179.95 MICROSOFT. WINDOWS. **4MB PCI Version $239.95**

Professional 3D, Graphics & Video Accelerator

Matrox Millennium



- ◆64-bit high performance professional graphics accelerator
- ◆2MB or 4MB base boards (upgradeable to 8MB)
- ◆Powerful dual ported WRAM memory
- ◆Windows 95, NT, 3.11, AutoCAD & Microstation
- ◆1600X1200 resolution in 8, 16 & 24-bit color
- ◆220Hz ramdac for refresh up to 85Hz
- ◆Bundled with: color calibration software, 3D Web Browser, 3D F/X, & Nascar® Racing
- ◆Video upgrades available (Media Series)

2MB PCI Version $209.95 MICROSOFT. WINDOWS. **4MB PCI Version $279.95**

2MB upgrade module-$159.95 4MB upgrade module-$279.95 6MB upgrade module-$429.95

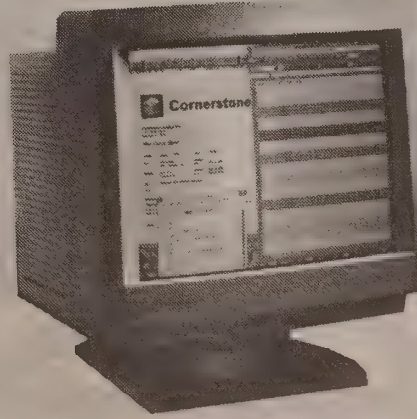
Cornerstone

Introducing High-End Color Performance At Low-End Pricing!

The Color 17/76 monitor is the most cost-effective document imaging solution, designed specifically for workplace environments in which users use a mix of document imaging and other business applications.

energy EPA POLLUTION PREVENTER

NEW!



Cornerstone 17/76

Superior Features:

- 17" diagonal display size
- Default resolution of 1280 X 1024 @ 76Hz refresh
- High resolution up to 1600 X 1200 @ 66 Hz refresh
- Super fine .26mm dot pitch
- Digital controls with on-screen programming
- Hardware based ScaleToGray™ image enhancement eliminates worker eyestrain
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- ImageAccel 2 provides ultra-fast acceleration for Windows and other graphical interfaces
- MPR-II compliant
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15" 1280X1024 SVGA Color Monitor

15SX

- .25dp
- Trinitron
- 1280X1024
- 60Hz
- Plug & Play
- Energy Star Compliant
- Mac Compatible

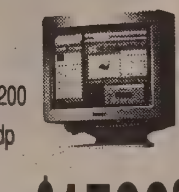
$399^95

ViewSonic®

21" 1600X1200 SVGA Color Monitor

G810

NEW!



- 1600X1200
- .25mm dp
- 71Hz

$1599^95

Number Nine

3D 64-Bit Graphics Accelerator With Full Screen Video Playback

9FX REALITY 332

NEW!

- S3d™ViRGE
- Full Screen Digital Video playback
- Optional Hardware MPEG upgrade card
- Up to 150MHz refresh
- Up to 16.7 million colors
- Includes Terminal Velocity, Screamer, Realimation, HAVOC & Web 3D/3DFX

PCI
2MB EDO
DRAM

$149^95

Number Nine

128-bit Parallel Processing Video Accelerator Card

IMAGINE 128 SERIES II

NEW!

- 128-bit graphics engine that works in **PARALLEL** with your CPU to process whole lists of instructions at once instead of one at a time Simultaneously processes sixteen 8-bit, eight 16-bit or four 32-bit pixels per instruction
- Up to 1600X1200 resolution
- Up to 16.7 million colors

PCI
4MB
VRAM

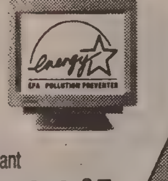
$629^95

FULL LINE OF NAME BRAND COLOR VIDEO MONITORS AVAILABLE

SONY

17" 1280X1024 SVGA Color Monitor

17SF2



- .25dp
- Trinitron
- 1280X1024
- 60Hz
- Plug & Play
- Energy Star Compliant
- Mac Compatible

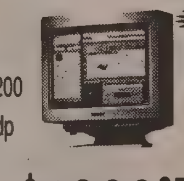
$799^95

ViewSonic®

21" 1600X1200 SVGA Color Monitor

P810

NEW!



- 1600x1200
- .25mm dp
- 76Hz

$1699^95

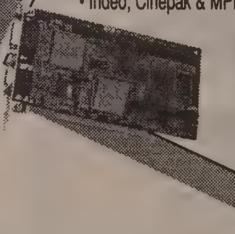
DIAMOND MULTIMEDIA

64-bit Video Graphic Accelerator

STEALTH 64 2121

- Upgradeable to 2MB EDO DRAM
- MPEG Upgradeable
- Refresh to 120Hz
- Realtime Video Acceleration
- Indeo, Cinepak & MPEG support

PCI
1MB EDO
DRAM



$99^95

ATI TECHNOLOGIES INC.

64-bit Gaming & Graphics Accelerator with TV Quality Video

3D XPRESSION

NEW!

- Razor sharp 3D graphics & color
- Fast 64-bit 2D graphics
- Full screen TV Quality video at 30fps up to 65,000 colors
- Ideal for Windows or game users
- Extensive Windows utilities
- Optimized for superior Windows 95 performance

PCI
2MB EDO
DRAM

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FULL LINE OF NAME BRAND VIDEO GRAPHICS ACCELERATORS AVAILABLE

NCA's *High Quality*

17" 1280X1024 SVGA Color Monitor

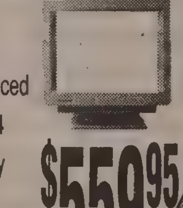
- .28mm dp
- 1280X1024
- Built-in Speakers

$499^95

OptiQuest

17" 1280X1024 SVGA Color Monitor

1769DC



- .28mm dp
- Non-interlaced
- 1280X1024
- Plug & Play

$559^95

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3D, Entertainment & Multimedia Accelerator

Mystique

- 64-bit **PCI** graphics accelerator
- **2MB WRAM** (upgradeable to 4MB)
- Bundled with: Mech Warrior 2, Destruction Derby 2 & Scorched Planet

$179^95

4MB PCI - $239^95

matrox

Professional 3D, Graphics & Video Accelerator

Millennium

- 64-bit **PCI** graphics accelerator
- **2MB WRAM** (upgradeable by 4 or 6MB)
- Bundled with: color calibration software, 3D web browser, 3D/FX & Nascar® Racing

$209^95

4MB PCI - $279^95

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Specom

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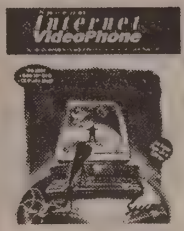
You Can See & Talk to Any Body in the World for the Cost of a Local Phone Call!



Internet VideoPhone Suite

Internet VideoPhone allows you to see and talk to the other party in real-time audio & full color live video.

Includes VisionCam Video Camera!

MICROSOFT. WINDOWS.

$199⁹⁵

You Can See & Talk to Any Body in the World for the Cost of a Local Phone Call!

Internet VideoPhone

Internet VideoPhone Software

Internet VideoPhone allows you to see and talk to the other party in real-time audio & full color live video.

WOW!

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$49⁹⁵

The Easy, Fast & Affordable Way to Send & Receive Color Documents

ColorLink Software

ColorLink is the all-in-one communications program that automates the entire process of sending & receiving color documents with your PC.

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You Can Fax to Any Body in the World for the Cost of a Local Phone Call!

Internet FAX

Internet Fax Software

A convenient & inexpensive way to send & receive fax documents in color or B/W. InternetFax brings the power & functionality of the fax, Internet E-mail & document sharing together to your PC.

WOW!

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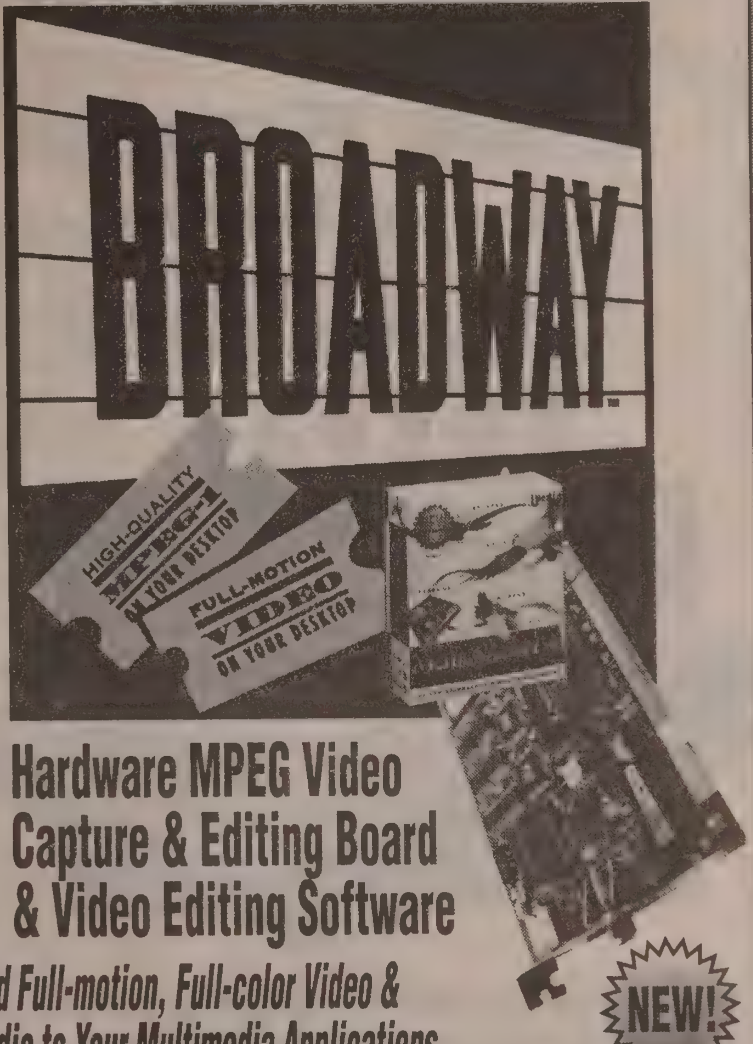
$55⁹⁵

DATA TRANSLATION®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HIGH-QUALITY MPEG-1 ON YOUR DESKTOP
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Hardware MPEG Video Capture & Editing Board & Video Editing Software

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Add Full-motion, Full-color Video & Audio to Your Multimedia Applications.

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FAX COMMUNICATIONS

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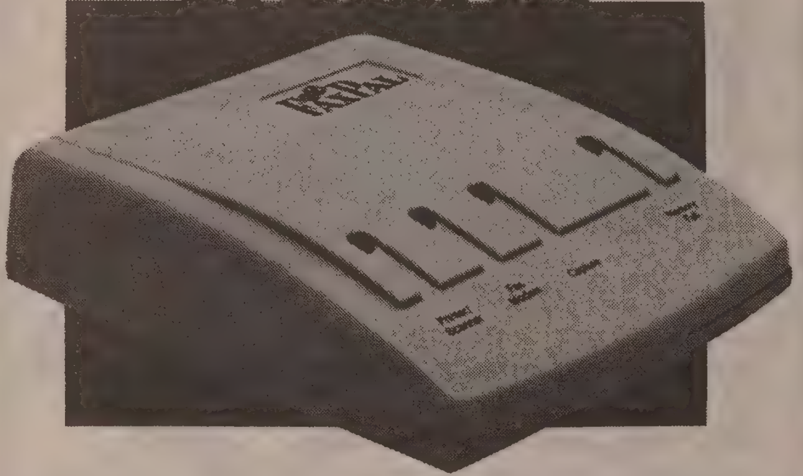
iI InfoImaging Technologies, Inc.

PC Fax Answering Machine

NEW!

3D FAXPAL



- •Recieves faxes while your PC is off by storing images in memory.
- •Stores up to 15-20 pages of standard text in 512KB internal flash memory & can be upgraded to 2.5MB or 4.5MB (that's 180 pages). No internal fax/modem card required
- •Works with portable computers so when you travel you can leave 3D FaxPal behind
- •Does not need a fax machine, but if you have one, 3d FaxPal can utilize it as a printer or scanner
- •Bonus-includes 3D FaxFile Basic software... the fast and easy way to compress and transmit files

$129.95

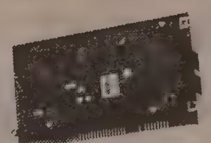
Cardinal.

NEW!

FAX MODEMS & ISDN ADAPTERS

33.6Kbps Internal Fax Modem

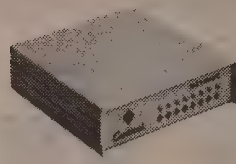
- Supports 33.6kbps V.34
- V.42bis, MNP5 & MNP10 for up to 4:1 data compression
- Data throughput up to 115,200bps
- 16550 UART on-board provides a high speed serial interface
- Group 3 fax
- Simple installation
- Plug & Play ready



$124.95

33.6Kbps External Fax Modem

$149.95



- Supports 33.6kbps V.34
- V.42bis, MNP5 & MNP10 for up to 4:1 data compression
- Data throughput up to 115,200bps
- 16550 UART on-board provides a high speed serial interface
- Group 3 fax
- Simple installation
- Plug & Play ready

33.6Kbps External Fax Modem *with Voicemail*

- Supports 33.6kbps V.34
- V.42bis, MNP5 & MNP10 for up to 4:1 data compression
- Data throughput up to 115,200bps
- Supports enhanced telephone services such as caller ID & destinctive ring
- Built-in flashROM for easy upgrades
- Supports VoiceView 1.0
- Simple installation
- Plug & Play ready

$159.95

128K ISDN Internal Fax Modem

Download 1MB in 62 seconds!

$199.95

- Compatible with US national ISDN-1& AT&T 5ESS switches
- Point-to-point protocols (B channel), Multilink PPP & V.120 for Windows 95
- Industry standard AT command set
- Simple installation
- Plug & Play ready

October 1995 MVP288XF
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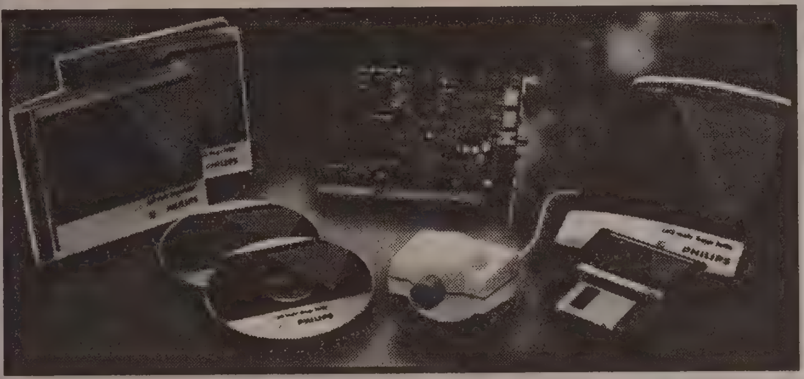
Video Conferencing Kit with Color Camera

EasyCAM

- Three Products in One
  - Video Conferencing
  - Video Capture
  - Video Editing
- Includes High Resolution Color Video Camera
- Internet & Intranet Video Conferencing
- Use with your existing modem, ISDN or LAN
- Create exciting videos in a snap

$499⁹⁵



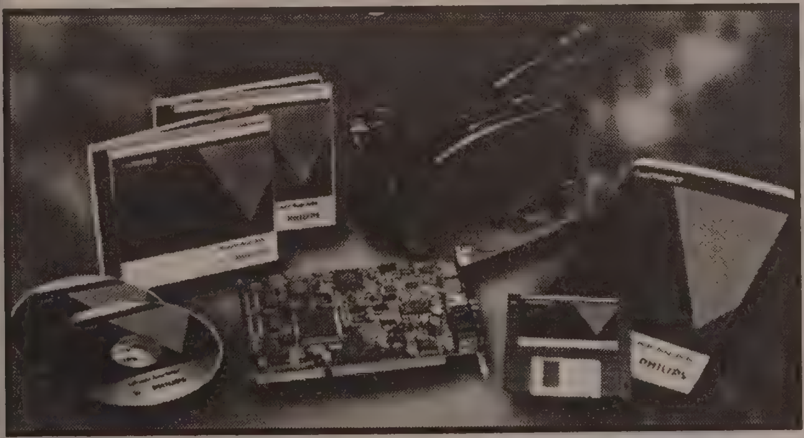
Video Conferencing Kit

EasyCONNECT

- Internet & Intranet Video Conferencing
- Works with all analog cameras and camcorders*
- Use with your existing modem, ISDN or LAN
- Create exciting videos in a snap

* Camcorder not included

$299⁹⁵



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NEW!

Hewlett Packard Printers & Scanners for home & office

PRINTERS

300X300dpi Color Inkjet Printer

DeskJet400

- Prints 3 ppm in black, 2-4ppm color,
- 600X300dpi black, 300X300dpi color
- HP's ColorSmart technology for vivid color at the touch of a button • Plain Paper, Labels, to 8.5X14, envelopes & transparencies • Drop-on-Demand Thermal Inkjet Printing
- 3¢ per page cost
- HP's REt technology
- Windows compatible

$199

Color Inkjet Printer with Project Kit

DeskJet682C

- Prints 5ppm in black, 1.5ppm color,
- 600X300dpi black, 300X300dpi color
- HP's ColorSmart technology for vivid color at the touch of a button
- HP's Home Project Kit Includes:
  - Disney's Mickey & Friends Print Studio for creating cards, banners, calendars & more
  - Print Pak's Family Fun Kit for creating window art, etc.
  - Includes Hp banner paper, greeting card stock envelopes
- HP's PrintSmart
- Windows compatible

$299

Portable Inkjet Printer

DeskJet340

- 600X300dpi black
- Prints 3ppm in black, optional color kit
- Opptional HP Mac adapter, 60 page desktop sheet feeder, rechargeable battery, rapid recharger and carrying case
- Infrared adapter option for wireless printing
- Lightweight, fits in briefcase
- 1 year warranty

$299

Professional Color Inkjet Printer

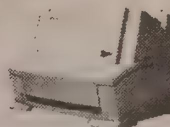
DeskJet820Cse

- Prints 6.5ppm in black, up to 4ppm color
- HP's RealLife imaging system with C-Ret
- HP's ColorSmart technology for vivid color at the touch of a button
- HP's QuickStar for easy printer setup
- 150 sheet paper tray • Two-sided printing
- Paper types include business cards, labels & transparencies
- Microsoft Publisher CD for Windows 95
- Windows compatible
- 50 TrueType fonts
- 1 year warranty

WOW!

$399

600X600dpi Laser Printer



LaserJet5L Xtra

- Prints 4ppm at 600X600dpi
- Lowest cost of ownership, 1¢ per page print cost
- Handles a wide variety of paper, no special paper necessary to excellent print quality
- Hp's REI technology & microfine toner
- HP's PrintSmart
- Windows compatible
- FREE SOTWARE including NetScape Navigator 2.0, HP FontSmart, Avery Label Pro & More

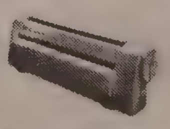
WOW!

$429*

* After $50 Mfg. Mail-in Rebate in-store price $479

SCANNERS

400dpi Document Scanner



HP ScanJet 4s

- 400dpi enhanced, 200dpi optical
- Small enough to fit between your keyboard & monitor
- Visioneer PaperPort e-mail & fax software & integrated OCR software
- Lets you make copies at your desk
- Scans documents as small as business cards up to 8.5"X30"
- Automatic on/off, just feed documents in

$199

1200dpi Color Flatbed Scanner

HP ScanJet 4p

- 1200dpi enhanced, 300dpi optical
- Single pass scanning at 256 grays & 16.7 million colors
- TWAIN/OLE support, Windows 3.11, Windows 95 & Mac support
- Includes HP's ScanJet Copy, HP PictureScan, HP AccuPage technology, & Visioneer PaperPort e-mail & fax software.

$499

2400dpi Color Flatbed Scanner

HP ScanJet 4c

- 2400dpi enhanced, 600dpi optical
- Greater shadow detail with 30-bit color, 10-bit grayscale internal scanning
- Includes Caere OmniPage LE OCR with HP AccuPage technology, Corel PhotoPaint (PC) & Adobe Photoshop LE (Mac), Visioneer PaperPort e-mail & fax software

$899

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RECORDABLE SCSI-II CD-ROM KITS

New Lower Prices!

- 1/2 height 5.25" 3rd generation built-in CD-Recorder
- Double-Speed record & up to Quad-Speed read
- 1MB internal cache
- CD-Bridge Multi-Session
- 740MB Max. Capacity
- CD-I & CD-Audio disks
- Motorized Tray loading
- Record CD-ROM (XA)

Internal CD Recorder with Corel for Windows 95, NT & 3.1.1+ (on CD-ROM), Adaptec AHA-1540 Bus Master & Drivers, 2 blank CDR Disks, SCSI Cables, mounting kit & Manual .... *After $100 Mfg. Mail-in Rebate In-store price $599.95 $499.95*

External CD Recorder with Corel for Windows 95, NT & 3:1.1+ (on CD-ROM), Adaptec AHA-1540 Bus Master & Drivers, 2 blank CDR Disks, SCSI Cables, mounting kit & Manual *After $100 Mfg. Mail-in Rebate. In-store price $699.95 .... $599.95*

Macintosh External CD Recorder with Corel for Macintosh (on CD-ROM), 2 blank CDR Disks, SCSI Cables, mounting kit & Manual .... *After $100 Mfg. Mail-in Rebate. In-store price $699.95 $599.95*

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Portable Document Scanner & More...

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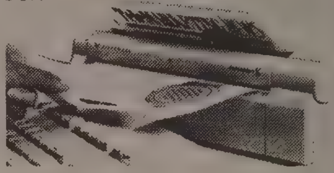

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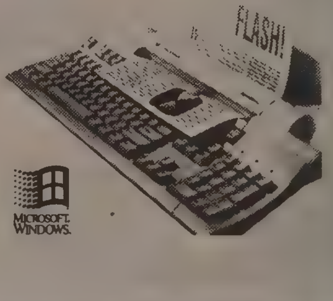

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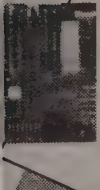

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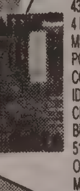

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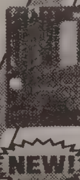

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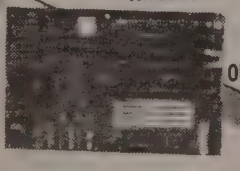

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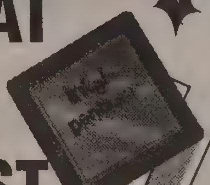

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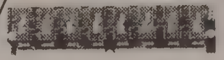

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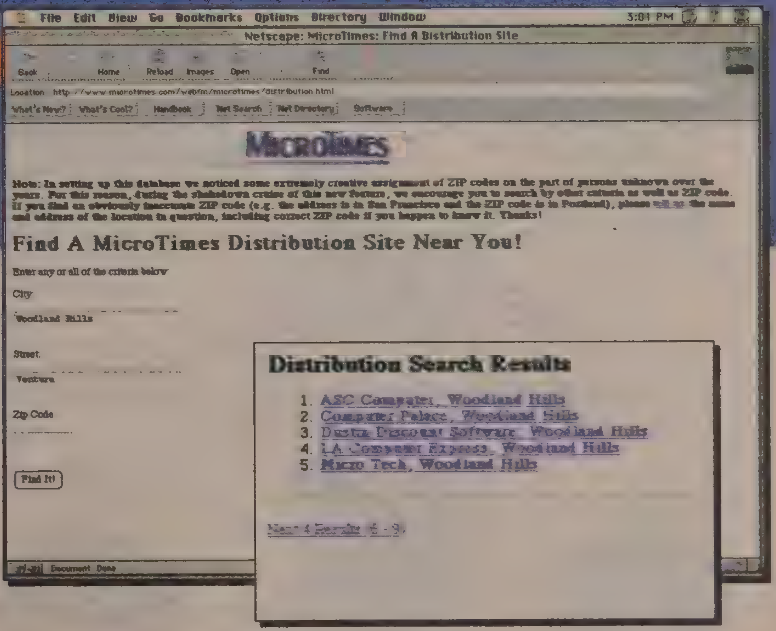

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Product Reviews *continued from page 160*

Dabbler 2 also has, in the Fractal tradition, great natural media tools that emulate paint brushes, pencils and pens. You can choose different paper grains and use pressure-sensitive tools such as the Wacom tablet and stylus. Using the stencil and cloning tools, kids can turn photos or clip art into hand-painted artwork with the look of chalk or oil, for example. Dabbler 2 supports plug-in filters and comes with 300 stencils, 100 stock photos, over 100 paper textures and three image font libraries.

I was disappointed to see that the previous version's Walter Foster drawing and color theory lessons had been completely abandoned from Dabbler 2's written manual. Drawing is one of the most basic skills needed by animators and artists and Dabbler is one of the few software packages that has successfully bridged the fine art gap. Those lessons would have been a natural companion to the current online lessons.

Dabbler is a powerful "art environment package" for older kids and adults. It contains creative art tools within an intuitive, cleverly designed "art studio" interface. Its visual presentation of educational material is the natural way for the artist to learn. Dabbler can enhance as well as develop talent in the aspiring artist. I highly recommend Fractal Dabbler for the budding artist, but because of its invaluable character animation and motion analysis lessons I must especially recommend it for the aspiring animator. (Fractal Design Corp., 5550 Scotts Valley Dr., P.O. Box 66959, Scotts Valley, CA 95067-6956. 1-800-297-COOL. URL: *http://www.fractal.com/*.)

Final Effects AP

Published By: MetaTools
List Price: $199
Review By: Matthew Leeds

Final Effect AP, available for Windows or Macintosh, brings MetaTools' add-on for Adobe's After Effects to Premiere. This collection of video effects plug-ins provides particle systems, transitions, color controls, distortions, and style effects previously available only on much more expensive systems. Particle systems can simulate rainfall, haze, smoke, snowflakes, and many other high-end effects.

A brief tour of some of the effects gives you a sense of what this package can offer. "Pixel Polly" simulates a pane of glass shattering and flying apart, and works great for explosions and car crashes. "Rain" creates rain effects with control over drop size, opacity, amount, speed, angle, and source depth. "Page Turn" folds back a layer to reveal an underlying layer. "Twister" twists a source into a layer that appears to be the back side of the source. "Sphere" converts an image into a sphere with controls over surface properties, reflections, shadows, and rotation. "The Particle System" creates a collection of particles that evolve over time; it can be used to create effects both natural and unusual.

While the Windows version will run on a 486 DX2-66 or better, you'll want a fast Pentium, and the Macintosh version cries out for a high-end PowerMac. You need Premiere 4.2 or an application that can use Premiere plug-ins. Render times for the more complicated effects tend to run long, but the results are well worth the wait. (MetaTools, Inc., 6303 Carpinteria Ave., Carpinteria, CA 93013. 805/566-6200) ■

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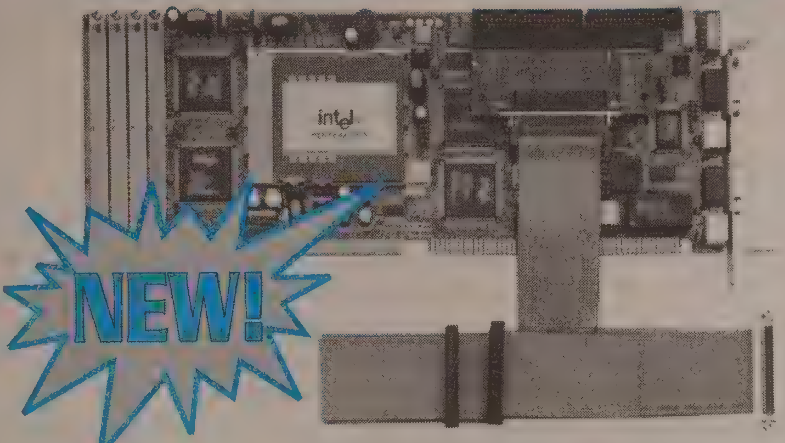

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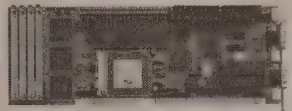

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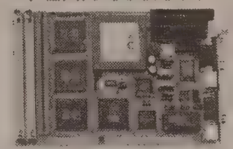

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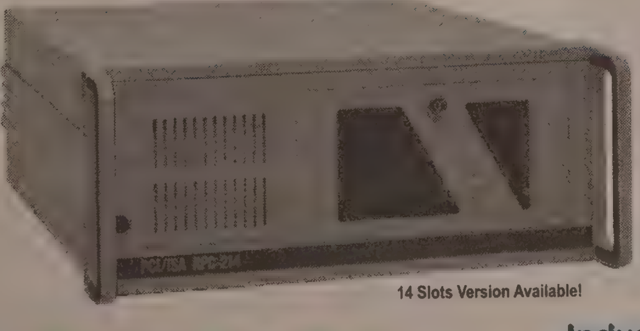

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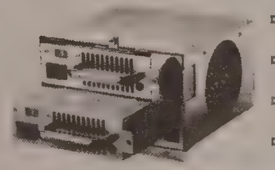
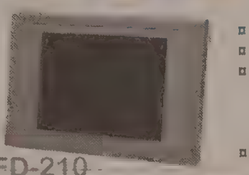


- Designed for Fault-tolerant Applications
- Dual Power Supply up to 450W Output
- Suitable for Disk Array, Non-stop Computer
- Meets Ul 1950, CSA22, No.234, TUV IEC 950
- Meets FCC Class B, VDE Class B & CE

Multi-Purpose Flat-Panel Display



PFD-210

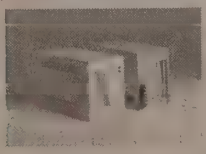
- No Radiation & No Sparkle
- Adjustable Screen for View Angle
- Different Type of Flat Panel
  - High Speed B/W FSTN Screen
  - TFT Active Matrix Color Screen
  - Dual Color STN Screen
- Resolution : 640 x 480

Passive Back Planes

4 ISA Slots
8 PCI/ISA Slots
14 PCI/ISA Slots
20 ISA Slots
Available!

Industrial 4/6/8 Slots Node IPC Chassis

RPC-204



- Support 4/6/8 Slots Passive Back Plane
- Safety Approval 150W P/S(optional)
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- Removable Air Filter
- Hold-down Clamp protects Plug-in Card from Vibration

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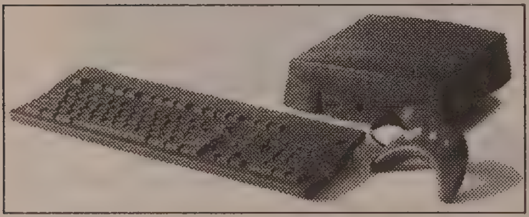
New Address

Product Announcements *continued from page 144*

display, and a 6X CD-ROM drive. All Winbook FX models include a standard 33.6Kbps internal fax/modem, 6X CD-ROM drive, and a 59-watt Lithium ion battery, and feature a modular design for greater flexibility. The options bay will accept a 3.5" floppy drive, 6X CD-ROM drive, or a second Lithium ion battery. A dual-button pointing stick is standard on the FX with an optional touchpad available for $79.95 extra. In addition, the Windows FX keyboard has been designed for Windows 95, with the inclusion of the start and menu keys. ($2,999 to $4,399) Winbook Corporation, 4119 Leap Rd., Hilliard, OH 43026. 1-800-468-7502.

Multimedia Hardware

Pippin @World



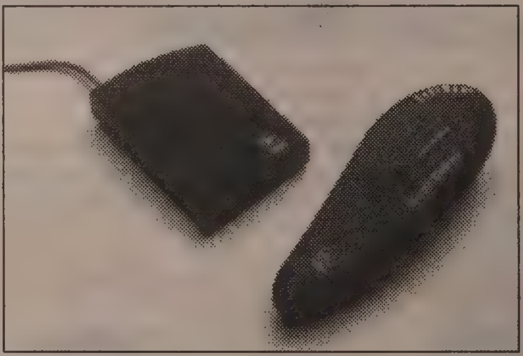
Pippin @World is a Pippin-based product that will allow users to access the Internet, surf the Web, exchange email, and play a myriad of multimedia interactive CD-ROMs designed for entertainment, education, health education, and fitness—all on an ordinary television. Multimedia CD-ROMs designed for Bandai Pippin @World can also run on Macintosh PowerPC computers. ($600) Bandai Digital Entertainment, 14241 E. Firestone Blvd., La Mirada, CA 90638. (310)404-1600. URL: *http://www.bdec.com* .

COMPRO Digital Color Internet Camera

COMPRO
DIGITAL CAMERA

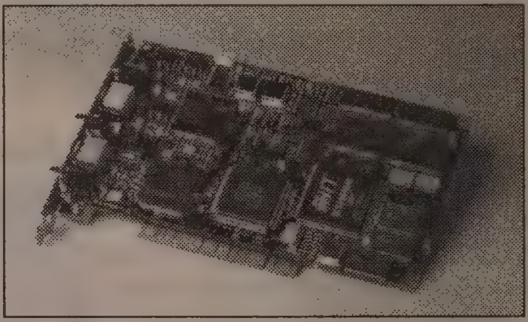
The COMPRO Digital Color Internet Camera is designed for use in Internet-based two-way communications, video teleconferencing, and as a digital capture camera for high-quality color motion and still images. The camera provides 256 gray scales and 16.8 million true color formats up to a resolution of 640 x 480. Focus is adjustable for close-up work and normal (40mm to infinity) camera work. Digital motion video can be captured at 160 x 120 resolution. Scan frequencies, to avoid light flickering problems, are selectable in either 50Hz or 60Hz. Manual and automatic gain and shutter control with speeds from 1/50th to 1/30,000th of a second are standard. A video capture card is not needed, nor is a separate power adapter, as the camera captures images directly into the PC through its parallel port using D-Viewer, Windows compatible software that allows control of image capturing, image rendering, special effects, and storage and retrieval capabilities. ($245) ACS Innovations, Inc., 1-888-2COM-PRO. URL: *http://www.acscompro.com* .

SurfMan Cordless Internet Controller



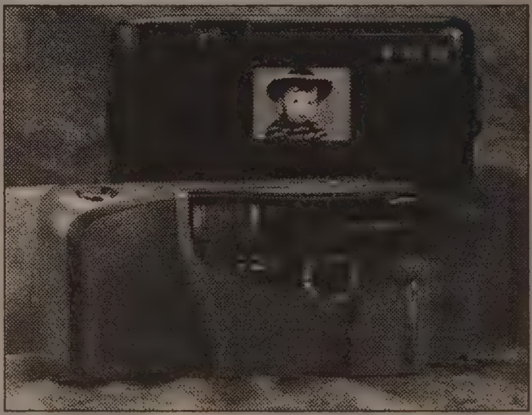
The SurfMan Cordless Internet Controller is a three-button, thumb-operated handheld device based on radio technology that is designed to make Web browsing as comfortable as watching TV. With SurfMan, Windows 3.1 and Windows 95 users can navigate the Web while sitting back from their monitors in a completely "untethered" position. A CD-ROM included in the SurfMan package contains a comprehensive integrated kit of Internet tools and access service from NETCOM On-Line Communications Services. Also included is Logitech's MouseWare software with its CyberJump feature. With CyberJump, exclusively for Windows 95, users can click on the middle button and immediately access a grid containing six Netscape Navigator shortcuts. ($100) Logitech Inc., 6505 Kaiser Dr., Fremont, CA 94555. (510)795-8500. URL: *http://www.logitech.com* .

WakeBoard Multimedia Pro



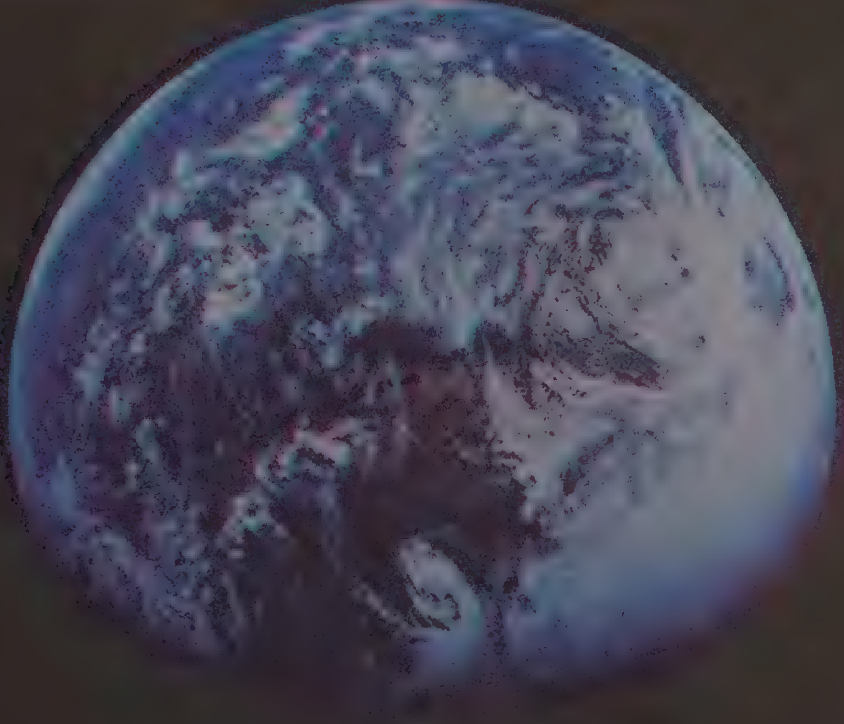
The WakeBoard Multimedia Pro, from Digital Video Arts, is a new PCI-bus digital video card that provides easy-to-use one-step capture and compression of video as an AVI file for playback on a PC with no special hardware. It allows real-time capture of video in a variety of formats. The flexibility of having access to multiple video formats offers multimedia professionals many advantages, including high-quality video for editing and outputting to tape, low data-rate video for playback on a computer and cross-platform support. (Bundled with Adobe Premier 4.2LE, estimated street price of $1000; bundled with a full version of Premier 4.2, CrystalGraphics Flying Fonts Pro 3.0, and Caligari trueSpace, $1500) Digital Video Arts, Ltd., 610 Old York Rd,. Ste. 320, Jenkintown, PA 19046. (215)576-7920. URL: *http://www.dval.com* .

Olympus D-200L



Olympus introduces its first digital camera, the D-200L, in a traditional camera size and shape. Users can instantly capture, view (on a built-in, color LCD screen), review, print, delete, save, post to the Web, or remotely send pictures.

High Speed Delivery Of Your Web Site Has Just Become Easier



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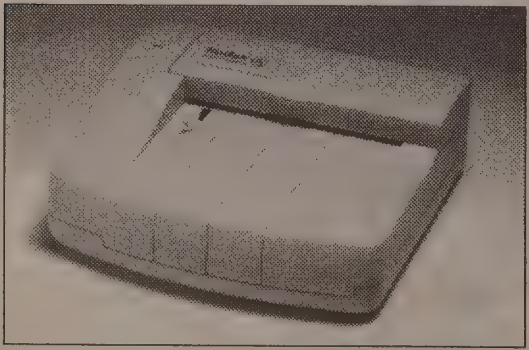
Automatic, red-eye reducing flash and 2MB internal Flash RAM stores up to eighty standard quality 24-bit color images, or twenty high-quality 24-bit color images. The D-200L camera uses AA lithium, alkaline or NiCad batteries with automatic shut-off for energy conservation. It comes bundled with Adobe PhotoDeluxe for (both Macintosh and Windows. $749) Olympus Image Systems, Inc., Two Corporate Center Dr., Melville, NY 11747-3151. (516)844-5000. URL: *http://www.olympusamerica.com/* .

DSC-F1 Digital Still Camera

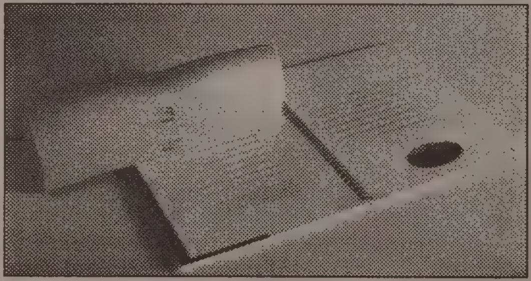
The DSC-F1 Digital Still Camera features a 1.8" LCD screen. Its built-in infrared transceiver allows users to wirelessly transfer images to an IrDA-equipped PC or printer in seconds. The system transmits images up to 1.152Mbps (megabits per second), or about thirty times faster than typical serial connections. Images stored in the camera can be downloaded individually, allowing rapid transfer of selected pictures to be stored or printed. The DSC-F1 camera can connect to a PC or Macintosh via a serial port and to a TV or video monitor via standard video jack for playback. Up to 108 images are stored on to the built-in 4MB flash memory in JPEG format, at 640 x 480 resolution. The lens and flash pivot to allow shooting in a variety of angles. It is powered by a single, rechargeable Lithium-Ion battery, an AC adapter/charger, or, for emergency use, by the AA-battery pack. ($849) Sony Electronic, 1-800-352-7669. URL: *http://www.sony.com/image* .

Snapshot Photo Scanner 1



The Kodak Snapshot Photo Scanner 1 is designed to make it easy to re-use your pictures in new and creative ways on your PC. It works with all standard "snapshot" print sizes, including the new Advanced Photo System. It can scan and display a picture—from magazine to baseball-card thickness—in less than thirty seconds. It features a sleek design and takes up less space then a mouse pad. The scanner captures pictures at a resolution of up to 600 dpi. A full 24-bit color 4 x 6 print occupies 2.75MB (uncompressed). The accompanying CD contains Storm's Easyphoto software, Kodak's TWAIN-compliant software, and Kai's Power Goo. ($199) Eastman Kodak Co., 901 Elmgrove Rd., Rochester, NY 14653-5200. 1-800-235-6325. URL: *http://www.kodak.com* .

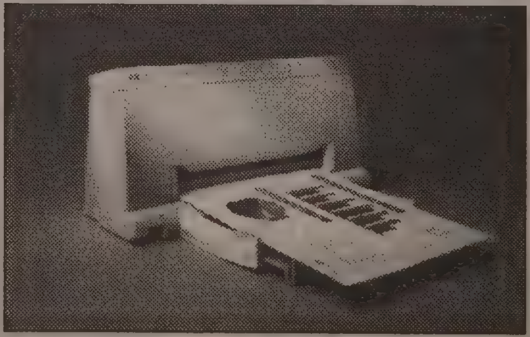
PageScan Color Pro



PageScan Color Pro, an enhanced version of Logitech's original sheet-fed color scanner, is bundled with Adobe PhotoDeluxe, Xerox TextBridge OCR, Xerox PerfectScan image editing software, and DocuMagic electronic filing software. Designed for Windows 95, PageScan Color Pro features a 24-bit color scanning, enhanced resolution up to 1600 dpi, and a ten-page automatic document feeder. In addition, its detachable motorized head permits users to scan both loose pages and bound materials. ($349) Logitech Inc., 6505 Kaiser Dr., Fremont, CA 94555. (510)795-8500. URL: *http://www.logitech.com* .

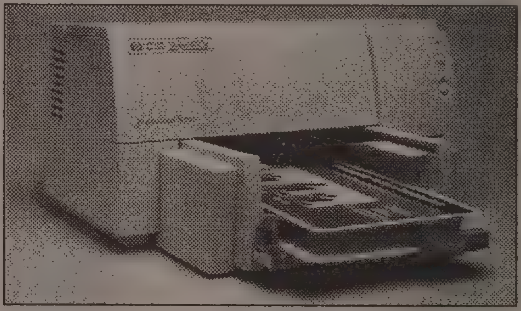
Printers

DeskJet 400



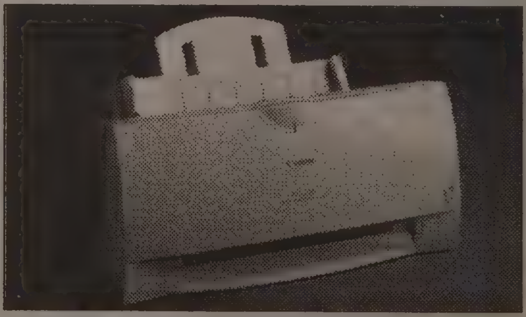
The HP DeskJet 400 color printer, which replaces the DeskJet 600 and 600C printers, offers high-quality, 600 x 300 dots-per-inch (dpi) black printing and 300 x 300 dpi color printing at 3 pages-per-minute. The included Color Kit with snap-in ink cartridges gives you the versatility to produce both crisp black and white documents and colorful pieces. HP's exclusive ColorSmart technology makes adjusting color for the greatest impact a breeze. The DeskJet printer is plug-and-play-ready for Windows 95 and is Windows 3.1-compatible. ($199) Hewlett Packard Co., P.O. Box 58059, MS511L-SJ, Santa Clara, CA 95051-8059. 1-800-752-0900. URL: *http://www.hp.com* .

DeskJet 870C



The HP DeskJet 870C Professional Series, a family of color inkjet printers offers faster printing, excellent black- and color-print quality, and printer sharing over peer-to-peer networks. Available for PC and Macintosh, this printer family consists of the DeskJet 870Cse and 8701Cxi printers. The 870C printers provide sharp black text at 600 x 600 dpi and prints color at 600 x 300 dpi. Its 20MHz RISC processor delivers back text printing at up to 8 ppm, and color output at up to 4 ppm. ($599) Hewlett Packard Co., P.O. Box 58059, MS511L-SJ, Santa Clara, CA 95051-8059. 1-800-752-0900. URL: *http://www.hp.com* .

Color Bubble Jet



This new line of Canon Bubble Jet color printers includes Canon Creative 2 software, a two disc CD-ROM set of nine full-featured Windows applications for creating and printing personalized materials for work or play. For the budget-

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- 12.1" TFT Color 800x600
- **64-bit PCI with 2MB EDO display**
- 256K L2 Pipeline burst cache
- 8/16/24/32/48/64/72MB RAM
- 1.0GB/1.3GB HD
- Removable 3.5" 1.44MB FD
- MPEG module optional
- Built-in 16-bit sound card
- Built-in two speakers
- Three PCMCIA type II slots
- Built-in fast infra-red (4Mbps)
- Built-in touchpad
- Serial 16550, EPP and game port
- One 168-pin docking interface
- **Composite video output (TV)**
- Built-in 8xCD-ROM
- Standard DURACELLTM battery
- Second battery option in place of FD
- One year manafacture warranty,
- Optional 3-year GE warranty
- Microsoft Windows 95 on CD

12.1" Active Color Diaplay 8xCD	
Pentium 100Mhz/16mb/1.0GB	$3049
Pentium 120Mhz/16mb/1.0GB	$3099
Pentium 133Mhz/16mb/1.3GB	$3299
Pentium 166Mhz/32mb/1.3GB	$3599
Pentium 200Mhz/32mb/1.3GB	$3849

Bizbook TS753CD

- Intel pentium CPU up to 133Mhz
- 11.3" DSTN /12.1" TFT 800x600
- 32-bit PCI with 2MB display
- 256K L2 Pipeline burst cache
- 8/16/24/32/40MB RAM
- 1.0GB/1.3GB/2.1GB HD
- 3.5" 1.44MB FD Co-existing w/CD
- Software MPEG support
- Built-in 16-bit sound card, dual spkers
- Two PCMCIA type II slots
- Built-in HP IrDA (150Kbps)
- Built-in touchpad
- Serial 16550, EPP and game port
- **Composite video output (TV)**
- Built-in 6xCD-ROM
- NiMH (10 cells 4/3A, 1.2V, 3000mAH)
- One year manafacture warranty,
- Optional 3-year GE warranty
- Microsoft Windows 95 on CD

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Pentium 100Mhz/16mb/1.0GB	$2199
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Pentium 150Mhz/40mb/2.1GB	$2799

11.3" Active Color Diaplay add $450

12.1" Active Color Diaplay add $650

Bizbook TS96CD

- Intel 2.9v pentium 100Mhz/133Mhz
- **Intel Mobil Triton/PCI Bus**
- 11.3" DSTN/12.1" TFT 800x600
- **128-bit PCI with 1MB EDO display**
- 256K L2 Pipeline burst cache
- 8/16/24/32/40MB RAM
- 1.0GB/1.3GB/2.1GB HD
- Removable 3.5" 1.44MB FD
- Built-in 16-bit sound card
- Built-in two speakers
- Three PCMCIA type II slots
- Built-in HP IrDA(150Kbps)
- Built-in touchpad
- Serial 16550 and EPP port
- One docking port
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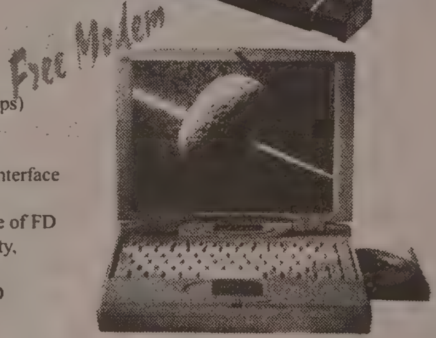
Pentium 120Mhz/16mb/1.0GB	$2499
Pentium 133Mhz/24mb/1.3GB	$2749

12.1" Active Color Diaplay add $700

Patriot 8000i

- Intel pentium CPU up to 133Mhz
- 11.3"DSTN/11.3" TFT 800x600
- 32-bit PCI with 1MB DRAM display
- 256K L2 Pipeline burst cache
- 8/16/24/40MB RAM
- 1.0GB/1.3GB/2.1GB HD
- Removable 3.5" 1.44MB FD
- MPEG module optional
- Built-in 16-bit sound card
- Built-in two speakers
- Three PCMCIA type II slots
- Built-in HP infra-red (150Kbps)
- Built-in touchpad
- Serial 16550 and EPP port
- One 176-pin port replicator interface
- 6xCD-ROM in place of FD
- Second battery option in place of FD
- One year manafacture warranty,
- Optional 3-year GE warranty
- Microsoft Windows 95 on CD



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Pentium 133Mhz/16mb/2.1GB	$2399

11.3" Active Color Diaplay add $400

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- ASUS P/I-XP6NP4 Main Board

or

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- Tyan Titan Pro Main Board

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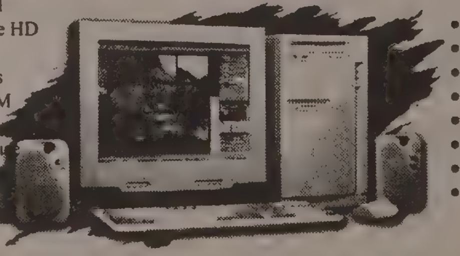
- IBM DORS 4GB 8ms SCSI wide HD
- Adaptec 2940W SCSI card
- 3COM 3C905 10Mbps/100Mbps
- Diamond PCI 64-bit 1MB DRAM
- Delux Full Tower Case
- Key Tronic 104 KB and MS mou
- Windows NT 4.0 Server w/5Us



NT 4.0 /Win95 WS *$Call*

- Intel Pentium up to 200Mhz
- Intel Marl Triton II w/256 Burst
- 32MB EDO RAM
- Teac 1.44MB Floppy
- 8xEIDE CD-ROM
- WD-1.6GB 10ms EIDE HD
- Diamond Stealth 64 PCI 2VRAM
- USR 33.6 fax/modem int
- Creative Lab 16-bit Sound card
- Delux Midlle Tower Case
- Viewsonic GT770 17" .25mm
- Key Tronic 104 KB and MS mouse
- Yamaha YST-M7 speakers
- Windows NT 4.0 Workstation or Windows 95

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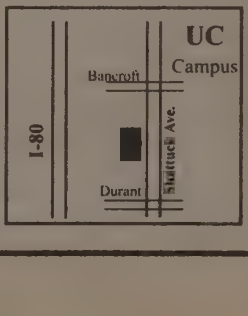

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Farallon

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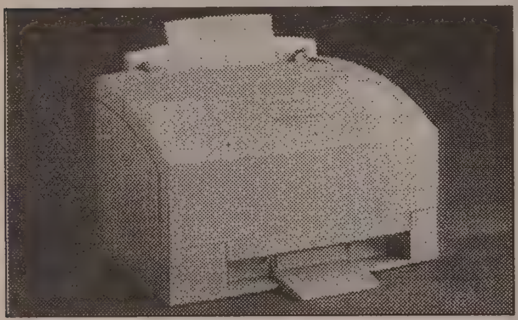
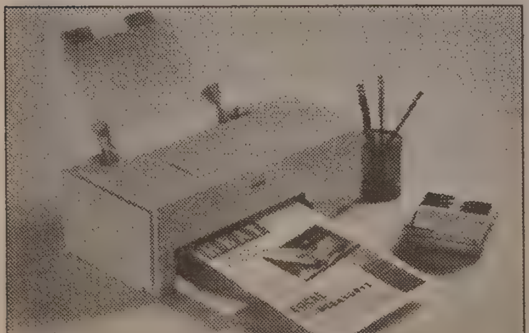
minded, the BJC-240 ($179) provides 360 x 360 dpi color and composite black resolution. The BJC-4200 ($279) offers 5 pages-per-minute black and white printing and 720 x 360 color printing to bring professional color printing to the home. The BJC-620 ($399) provides true photographic-quality printing on plain paper at 720 x 720 dpi and generates 2 ppm in color. The BJC-4500 ($499), compatible with both Macintosh and Windows, offers 720 x 360 dpi color resolution prints on 11" x 17" paper. Canon Computer Systems, Inc., 2995 Redhill Ave., Costa Mesa, CA 95626. 1-800-848-4123. URL: *http://www.ccsi.canon.com* .

LBP-465



The LBP-465 Windows-compatible, monochrome laser printer offers 600 dpi and built-in sheet feeder that holds 100 sheets of letter- or legal-size paper. The printer's straight paper path handles paper, card stock, and envelopes without curling. Printing at a speed of 4 ppm, the LBP-465's performance is enhanced by the latest generation of the Windows Printing System that intelligently allocates the PC's resources to provide faster printing speed and allow quicker return to application. ($365) Canon Computer Systems, Inc., 2995 Redhill Ave., Costa Mesa, CA 95626. 1-800-848-4123. URL: *http://www.ccsi.canon.com* .

Stylus Color 500



A stand-alone solution for SOHO users, the Epson Stylus Color 500 color ink jet printer provides 720 dpi color and black printing. The printer includes Epson's Look Your Best Color Pak, a CD-ROM that contains full versions of Sierra's Print Artist, Adobe PhotoDeluxe for Windows users and Adobe HomePublisher and Adobe PhotoDeluxe for Macintosh users, as well as twenty-five extra "funtastic" fonts, fifty iron-on images, and 100 high-resolution photos. It works with Windows 95, Windows 3.1x, Windows for Workgroups 3.1x, and Macintosh single users; System 7.1 or later. Epson provides a two-year limited warranty with toll-free technical support. ($289) Seiko Epson Corp., 20770 Madrona Ave., Torrance, CA 90503. 1-800-GO-EPSON. URL: *http://www.epson.com* .

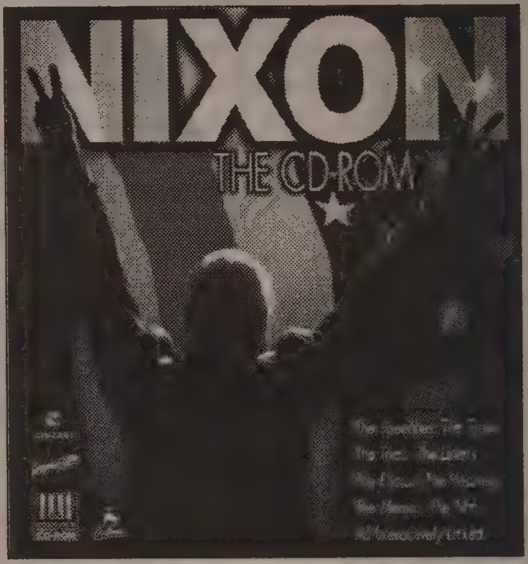
The Green Ghost

GREEN GHOST

This energy-saving device for laser printers saves so much energy that it will pay for itself in less than a year. It automatically senses when the laser printer has been unused for a predetermined length of time and turns off the printer. When the computer requests attention from the printer, The Green Ghost automatically powers the printer back up. This small device connects between the laser printer and the computer, it can also connect to NetPort devices on computer networks. Software (for Windows 3.1, 95, and NT) allows users to manually turn on the printer and to configure the activity time period in which the printer will turn itself off. ($99) Intelligent Computer Solutions, 9350 Eton Ave., Chatsworth, CA 91311. (818)998-5805. URL: *http://www.scsn.net/~ics* .

CD-ROM

Nixon: The CD-ROM



Nixon: The CD-ROM is an interactive, in-depth exploration into the life and presidency of Richard M. Nixon. Users can explore a navigable 3-D "Secret" White House and examine the thousands of pages of unpublished documents, Watergate tape transcripts, interactive timelines, Oliver Stone's Academy Award-nominated screenplay, create custom searches using a Boolean search engine, and much more. For Windows 3.1, Windows 95, and Macintosh. ($40) Graphix Zone, Inc., 42 Corporate Park, Ste. 200, Irvine, CA 92714. (714)833-3838.

Painters Painting

Based on the critically acclaimed 1972 documentary by Emile de Antonio, Painters Painting CD-ROM offers a vibrant collective portrait of the legendary figures who powered the post-war New York art scene. Woven throughout the CD are complete interview transcripts, never-before-seen footage, original essays, and supplementary video and text. The CD-ROM, authored by Ron Mann and edited by Douglas Kellner, is available for Macintosh and Windows. A labor of love by an acclaimed political film maker, Painters Painting is a provocative look at the legendary figures of the New York art scene as it could only be viewed from the inside. ($40) The Voyager Company, 578 Broadway, Ste. 406, New York, NY 10012. (212)431-5199. URL: *http://www.voyagerco.com* .

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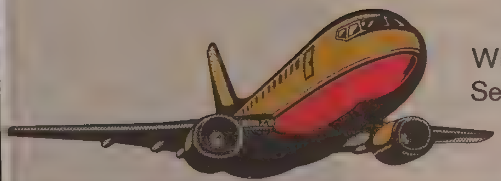

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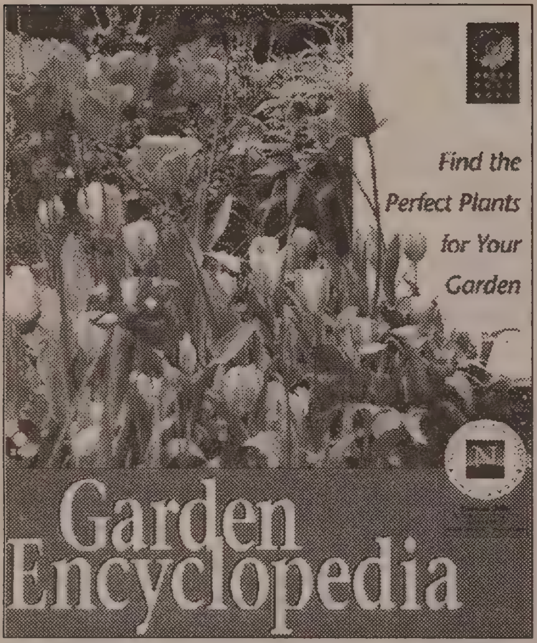
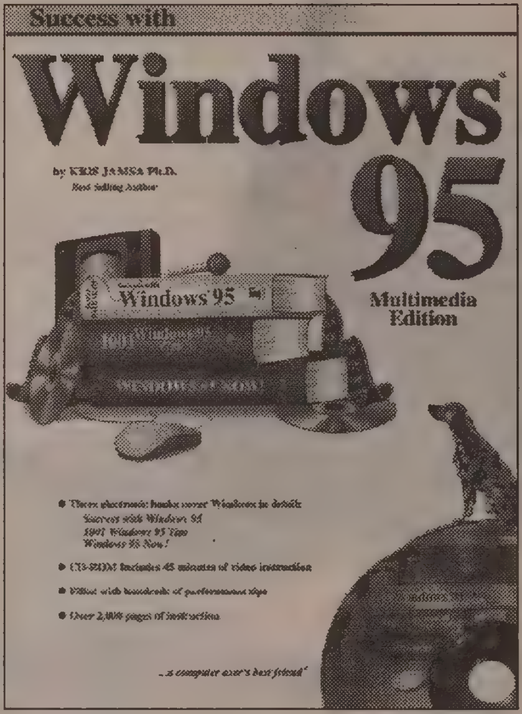
Garden Encyclopedia



Garden Encyclopedia 2.0 is a plant database of more than 1,500 annuals, perennials, bulbs, vegetables, trees, shrubs, and groundcovers that can be used as a virtual at-home nursery. The expanded plant database will search by flower color, bloom season, and other requirements such as sun or soil to match your garden's environment. Plant records are complete with audio botanical name pronunciation and a color photo. The software includes Netscape Navigator to provide a direct link to gardening information available on the Internet. ($30, Windows 3.1 and Windows 95) Books That Work, 2595 E. Bayshore Rd., Palo Alto, CA 94303-3210. (415)326-4280. URL: *http://www.btw.com* .

Success With Windows 95, Multimedia Edition

Success with Windows 95, Multimedia Edition combines multimedia video- and audio-based instruction with three electronic books, Windows 95, by Kris Jamsa and Naba Barkakati, 1001 Windows 95 Tips, by Greg Perry, and Windows 95 Now!, by Kris Jamsa, to teach you how to use Windows 95. Included are step-by-step instructions for all operations. The video instruction plays within a window on your screen. The combination of the three books covers everything from plug-and-play hardware and the customization of Windows 95 to connecting to the Internet and Web. The multimedia presentation includes forty-five minutes of video and 2000 pages of text. ($50) Jamsa Press, 2975 S. Rainbow, Ste. 1, Las Vegas, NV 89102. 1-800-432-4112.

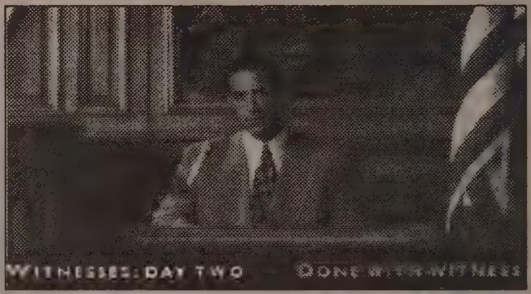


Williams-Sonoma Guide To Good Cooking

The new Williams-Sonoma Guide to Good Cooking hybrid Windows 95/Mac CD-ROM can help users prepare delicious cuisine that the whole family will enjoy for the holidays and throughout the year. Based on the Williams-Sonoma Kitchen Library cookbook series, it offers the home chef access to 1000 recipes chosen by Williams-Sonoma founder Chuck Williams. In addition, there are fifty complete menus ranging from Thanksgiving dinner for eight to an afternoon tea for four. Other features include a powerful search tool to access the perfect recipe; a glossary of terms and ingredients; and sixty step-by-step video demonstrations. ($40) Brøderbund Software, Inc., 500 Redwood Blvd., Novato, CA 94948-6121. (415)382-4569. URL: *http://www.broderbund.com* .

In the 1st Degree

Set in the spicy South of Market district of San Francisco, In the 1st Degree is a compelling legal challenge combining the latest in interactive CD-ROM software technology with modern cinematography techniques. The player assumes the role of prosecuting attorney Sterling Granger in a complex case of murder, lies, and conflicting motives. Sterling's goal is to prove the defendant is guilty of murder in the first degree. ($45) Brøderbund Software, Inc., 500 Redwood Blvd., Novato, CA 94948-6121. (415)382-4569. URL: *http://www.broderbund.com* .



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Edition 2 moves 3D Home Architect into the realm of multiple story design with 3-D views, expanded interior design features, and a roof designer that generates standard roof styles as well as specialty roofs. It also brings the power of the Internet to designers with a dedicated 3D Home Architect home page that features downloadable sample plans, a message board that allows customers to ask questions of designers or each other, as well as plenty of tips and advice. Another new features includes the capability to create cabinet soffits, window muntin bars, as well as shutters and glasses over doors and windows. ($69.95 for Windows 3.1 and Windows 95; floppy disk version, $59.95) Brøderbund Software, Inc., 500 Redwood Blvd., Novato, CA 94948-6121. (415)382-4569. URL: *http://www.broderbund.com* .

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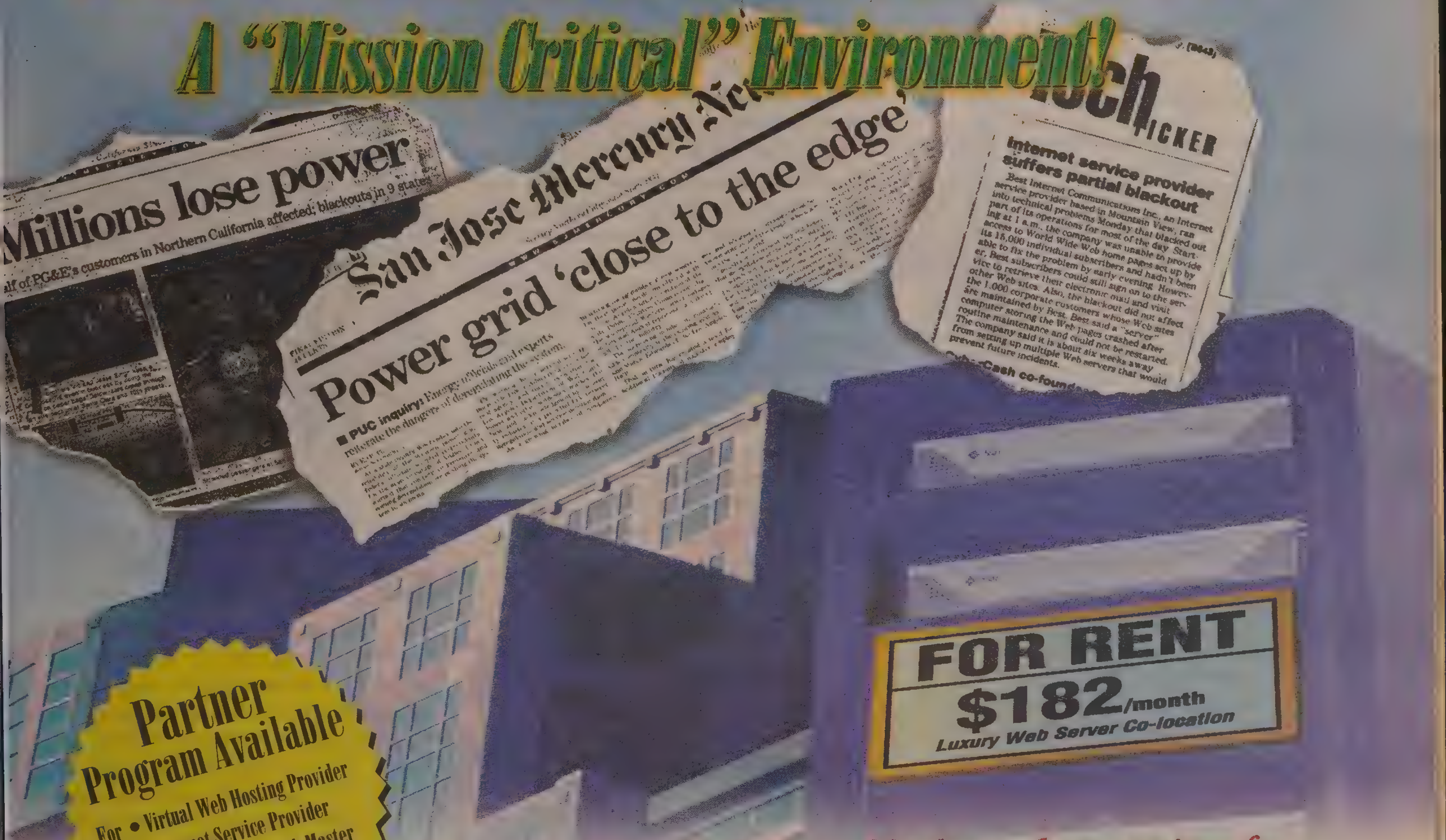

Millions lose power
alf of PG&E's customers in Northern California affected; blackouts in 9 states
San Jose Mercury News
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Tech Ticker
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Internet service provider suffers partial blackout

Best Internet Communications Inc., an Internet service provider based in Mountain View, ran into technical problems Monday that blacked out part of its operations for most of the day. Starting at 1 a.m., the company was unable to provide access to World Wide Web home pages set up by its 15,000 individual subscribers and hadn't been able to fix the problem by early evening. However, Best subscribers could still sign on to the service to retrieve their electronic mail and visit other Web sites. Also, the blackout did not affect the 1,000 corporate customers whose Web sites are maintained by Best. Best said a "server" computer storing the Web pages crashed after routine maintenance and could not be restarted. The company said it is about six weeks away from setting up multiple Web servers that would prevent future incidents.

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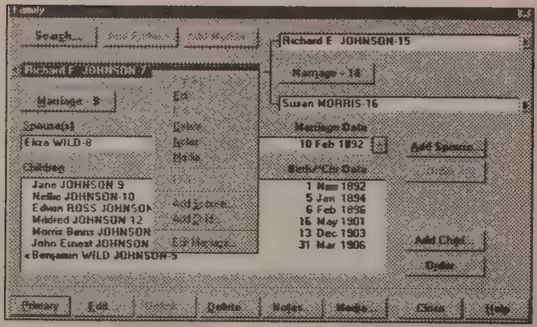
Ancestral Quest 2.0


Family
Search...
Marriage - 14
Marriage - 8
Spouse(s)
Children
Marriage Date
Birth/Chr Date
Add Spouse...
Add Child...
Order
Primary
Edit
Delete
Notes
Media...
Close
Help

Richard F JOHNSON-7
Richard E JOHNSON-15
Susan MORRIS-16
Eliza WILD-8
10 Feb 1892

Jane JOHNSON-9 1 Nov 1892
Nellie JOHNSON-10 5 Jan 1894
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Morris Benns JOHNSON 13 Dec 1903
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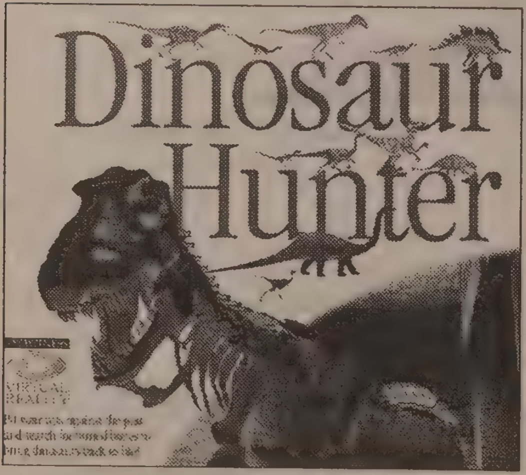
Ancestral Quest 2.0, featuring Hammond Maps of the World, allows anyone to create a multimedia family scrapbook, complete with historical documents, old photos, or recent video clips. It opens the doors of family research and discovery to anyone new to genealogy while containing powerful data organization, graphics capabilities and report functions for genealogy researchers and educators. Each ancestral database can hold up to 65,000 individuals, and any individual can have an unlimited number of media objects associated with their name. The program also includes a Church of Jesus Christ of Latter-day Saints option which allows users to enter information and codes necessary for accurate genealogy recording and submission to the LDS. Ancestral Quest is compatible with Windows 3.1, 95, and NT. ($44.95) Inline Software, Inc., P.O. Box 17788, Salt Lake City, UT 84117-0788. (801)278-5886, 1-800-825-8864. URL: *http://www.ancquest.com* .

Eyewitness Virtual Reality: Dinosaur Hunter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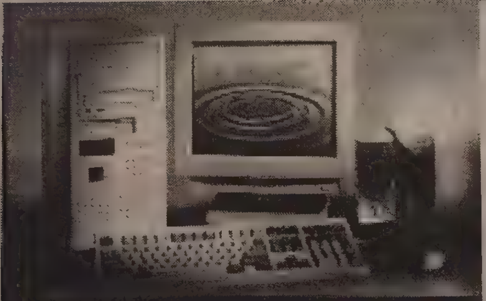

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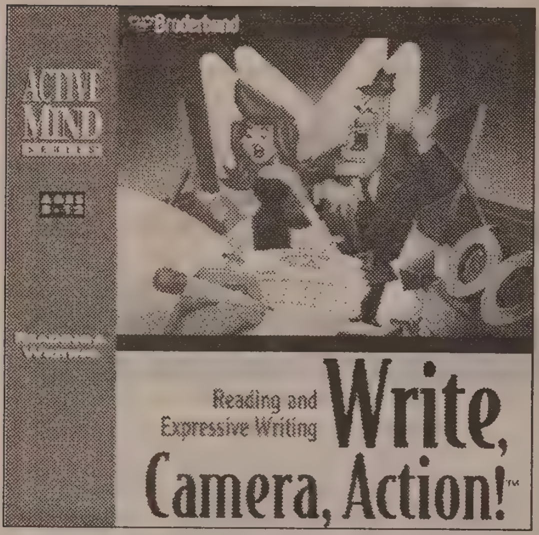
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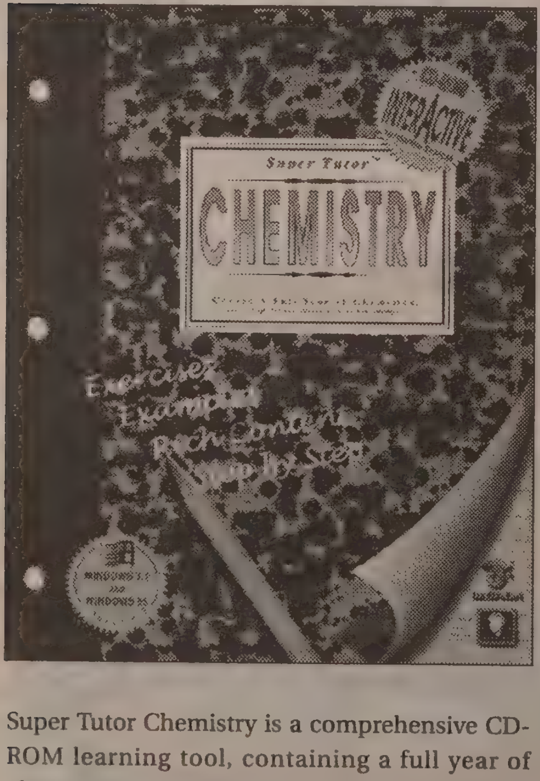
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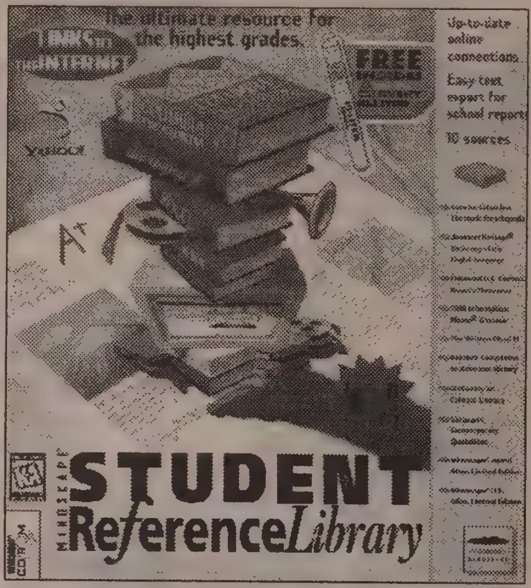
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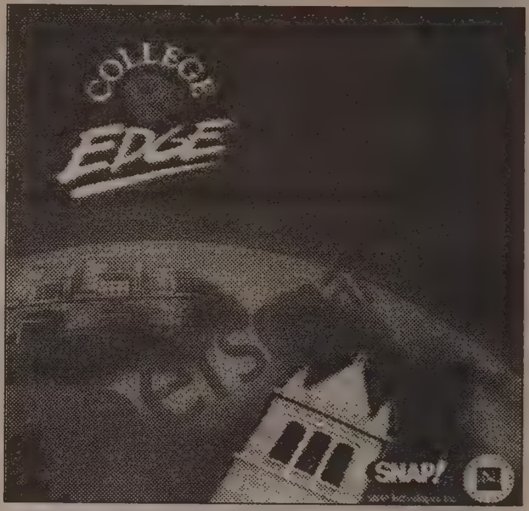
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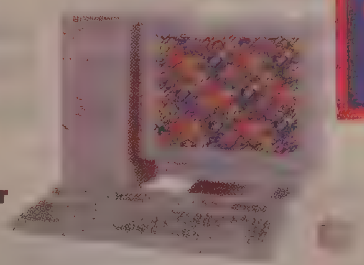

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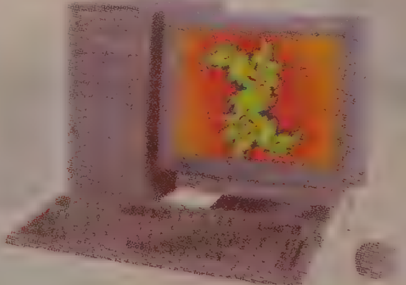

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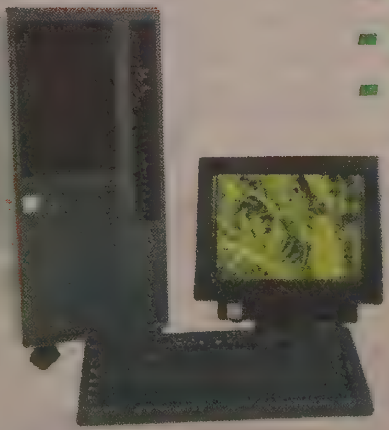

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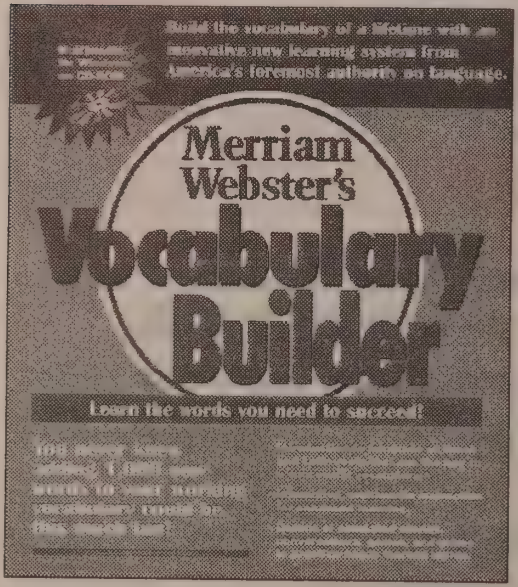
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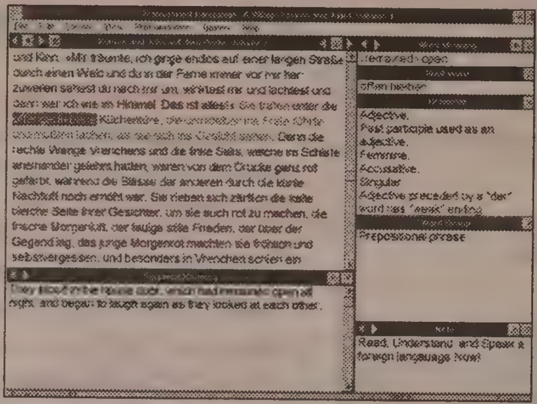

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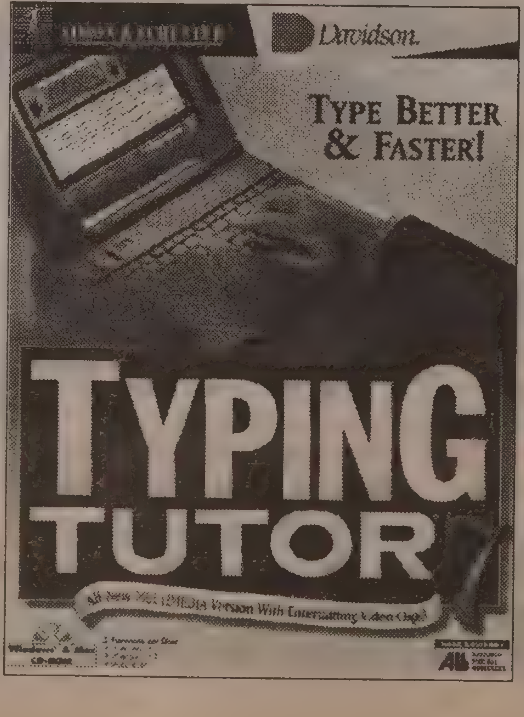
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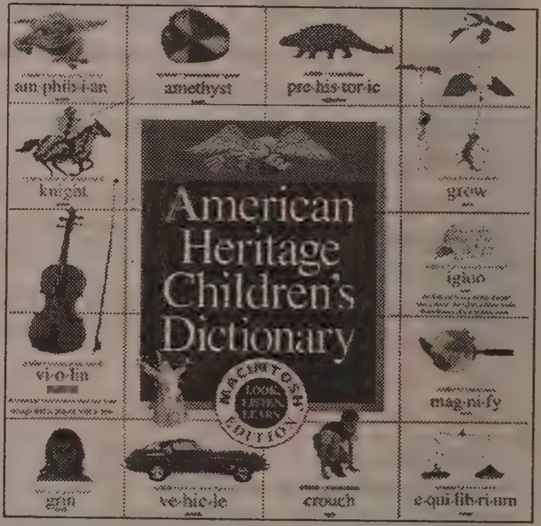
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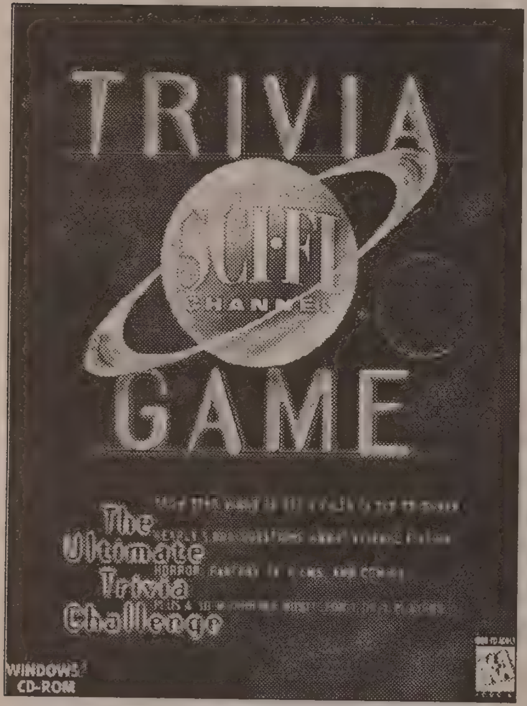
Games

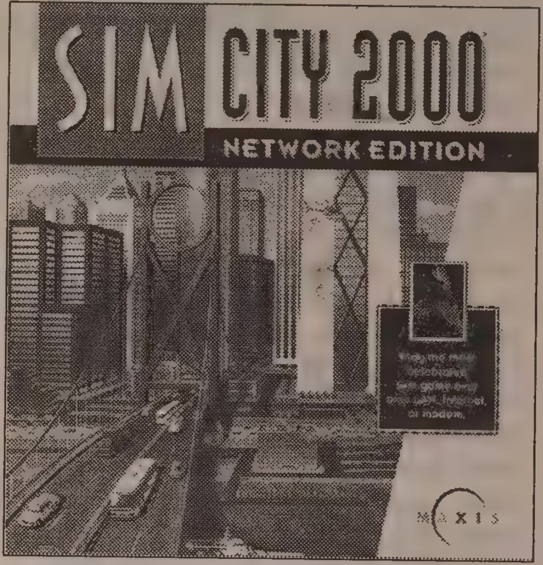
The Sci-Fi Channel Trivia Game



The Sci-Fi Channel Trivia Game is designed for fans of science fiction, fantasy, and horror from Star Trek to The Outer Limits, containing nearly 5,000 questions that become increasingly difficult throughout the game's three rounds. Questions are drawn from five categories including movies, television, books, comics, and a special wormhole section of miscellaneous trivia and are enhanced by an array of multimedia features including thousands of images. A 3-D animated morphing host, Morphix, moderates the game, which can be played against the computer or friends. ($20) Byron Preiss Multimedia Company, Inc., 24 W. 25th St., New York, NY 10010. (212)387-8383, 1-800-945-3155, *BPMC@aol.com* .

SimCity 2000 Network Edition

SimCity 2000 Network Edition is a multi-player version of the company's SimCity 2000 metropolis-building game, which can be played over the Internet, on a computer network, or through a modem. It has players acting as city commissioners whose decisions such as issuing bonds, instituting pollution controls, or increasing the school budget must be voted on and agreed to collectively. A chat feature allows players to hold town meetings or strike backroom political deals to share city resources. To play a multi-player game of SimCity 2000, one player's computer acts as a host for the game. In Internet or network play, up to three players connect to the host by entering the host's IP address. Multi-player matches will need to be arranged ahead of time. Maxis' Web site will have an electronic bulletin board where players can post challenges and arrange matches. For Windows 95. ($50) Maxis, 2121 N. California Blvd., Ste. 600, Walnut Creek, CA 94596. 1-800-336-2947. URL: *http://www.maxis.com* .



SimIsle

SimIsle lets players rule a tropical island where their decisions to explore, develop, and preserve influence not only the island's financial stability, but the happiness of native villagers and the survival of rare species. Each decision that can bring economic gain—building a new resort, exploring hidden ruins, or mining for gold—can affect the fragile habitat. Players can send their agents to suck the island dry of its resources, or they can assign them to aid natives in their local agricultural practices—or they can do both. The game also challenges players to respond to events whether they be ecological disasters, such as an oil tanker spill, or a rainforest discovery, like the uncovering of a rare species. SimIsle gives players the chance to make the discoveries and the decisions. On CD-ROM for Macintosh and Windows 95. ($40) Maxis Corp., 2121 N. California Blvd., Ste. 600, Walnut Creek, CA 94596. 1-800-336-2947. URL: *http://www.maxis.com* .

Afterlife

Afterlife, on PC CD-ROM, is a strategic simulation in which players build and maintain the cherished acreage of heaven and hell. Afterlife turns convention upside-down as players assume the role of regional manager of an alien society's Great Beyond and are challenged to accommodate the expectations and needs of recently-deceased souls as efficiently and profitably as possible. If souls are kept happy, development in both heaven and hell proceeds with relatively few complications. If not, chaos ensues and everything goes to you-know-where in a handbasket! ($55) LucasArts Entertainment Co., P.O. Box 10307, San Rafael, CA 94912. (415)472-3400.

The LucasArts Archives Vol. II: The Star Wars Collection

The Star Wars Collection PC CD-ROM includes three classic Star Wars titles: Rebel Assault, Rebel Assult II: The Hidden Empire, and TIE Fighter Collector's CD-ROM as well as Dark Forces Super Sampler Edition. The package also includes a bonus multimedia CD, Making Magic: A Behind-the-Scenes Look at the Making of the Star Wars Trilogy Special Edition, with an exclusive interview with George Lucas and a limited sneak preview of the digital enhancements from the new Star Wars adventure, set for theatrical release in 1997. LucasArts Entertainment Co., P.O. Box 10307, San Rafael, CA 94912. (415)472-3400.

Total War

Total War is a compilation of the Macintosh war games made by Strategic Studies Group. It comes only on CD-ROM and contains programs with a retail value of over $500 if purchased separately. Total War contains the following games and their complete printed documentation: Warlords 1, Carriers at War I & II, Gold of the Americas, Halls of Montezuma, Panzer Battles, Rommel in North Africa, Macarthur's War in Korea, and Decisive Battles of the American Civil War vol. 1–3. The CD-ROM contains extra scenarios from SSG's Run-5 Magazine, plus a number of scenarios never before published for the Macintosh. Power Mac versions of all programs are included. ($70) Strategic Studies Group, 3186 Hyde Park Pl., Pensacola, FL 32503. (904)469-8880.

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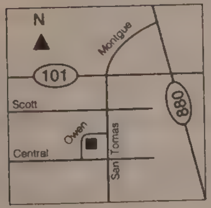

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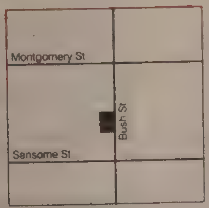

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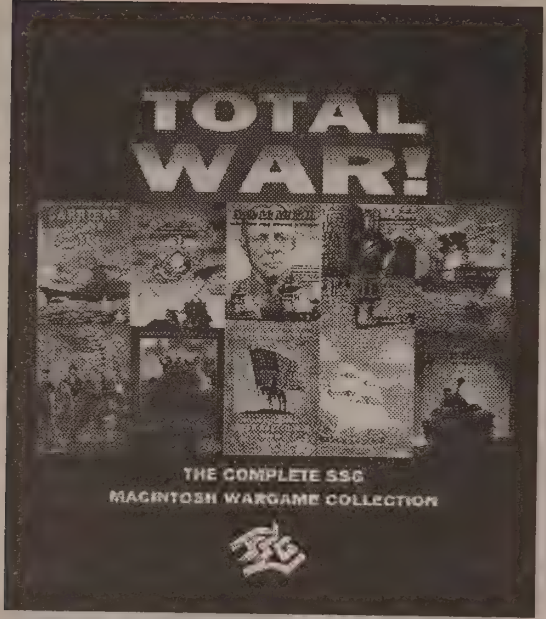

Internet/Web Software

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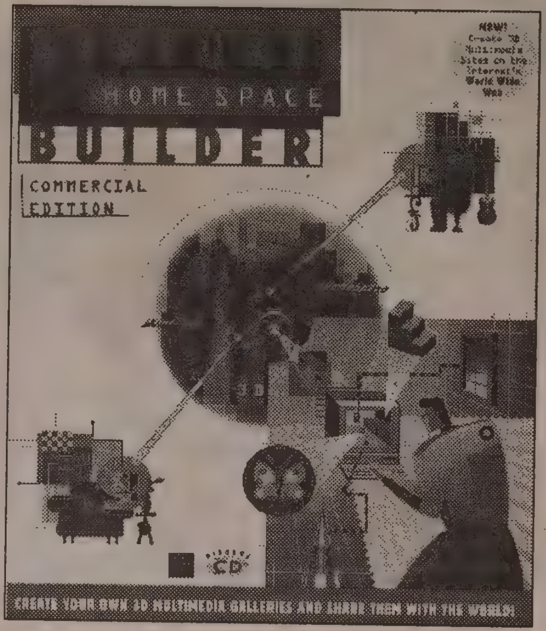
Peak WebPage Builder, based on the Java programming language, offers both novice and savvy surfers a fast way to build three-dimensional, interactive Web sites. Its friendly graphical user interface allows the user to easily integrate sound, text and animation into a home page. With the Peak WebPage builder, users can build basic Web pages in fifteen minutes, then add options, including graphics which zoom in and out, fade, and move about the screen; and graphically exciting text which can appear with drop shadows or multiple shadows, change size, extrude, and shift the colors of the shadow. The package also includes templates for different types of Web pages, sample graphics, suggestions for creating custom graphics, and step-by-step help in installing pages on the Internet. For Windows 95. ($50) Peak Technologies, Inc., 1211 Cornwall Ave., Bellingham, WA 98122. (360)733-6010. URL: *http://www.peaktech.com* .

Virtual Home Space Builder

Virtual Home Space Builder is a Virtual Reality Modeling Language (VRML) tool which allows users to quickly and easily create virtual worlds and 3-D Web sites where digital images can be displayed, stories can be told, and visitors can be taken on guided tours or explore freely on their own. In addition to building personal 3-D Web sites, it can be used to create interactive, 3-D photo albums, scrapbooks, and art exhibits; to produce 3-D multimedia event albums for weddings, graduations, or birthdays; even to produce interactive newsletters incorporating text and sound. It can import digital photographs, clip art, original computer graphics, sounds, music, text, and video. A stand-along viewer works on any compatible system. For Windows 3.1, Windows NT, and Windows 95. (Consumer Edition, $50; Commercial Edition, $495) ParaGraph International, 1688 Dell Ave., Campbell, CA 95008. (408)364-7700 URL: *http://www.paragraph.com* .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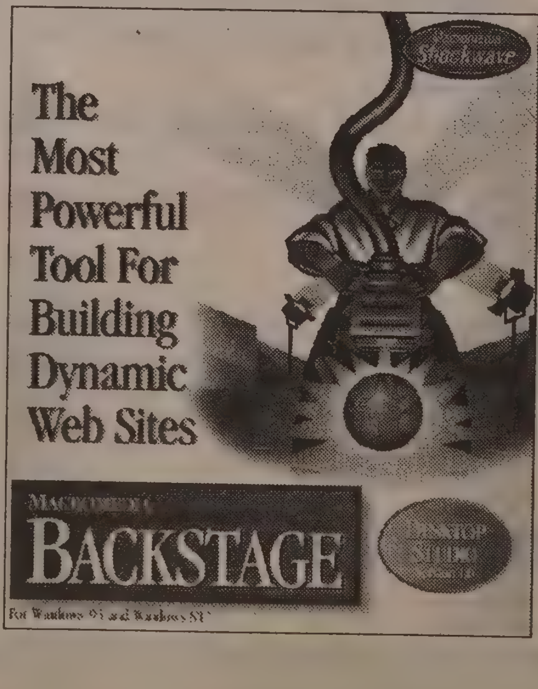
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Internet the City

Internet the City is a multimedia tutorial program that allows novices to easily learn the basics of the World Wide Web and popular Internet tools. Through the use of digital movies and "city tour guides," Internet the City breathes life into learning how to use the tools of the Internet, specifically email, FTP, USENET, Gopher, Telnet, IRC, and navigating the Web. The exciting, futuristic three-dimensional city environment features simple step-by-step lessons on how to use each of the Internet tools. Users select one of three tour guides, who then accompanies the user through all aspects of Internet the City, providing commentary and light-spirited humor. The product also comes with Netscape's Navigator software that enables users to connect to the Internet and test out what they have learned. ($50) Simply Interactive, Inc., 650 Saratoga Ave., San Jose, CA 95129. 1-800-335-5327. URL: *http://www.simply.com* .

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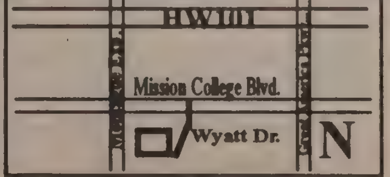

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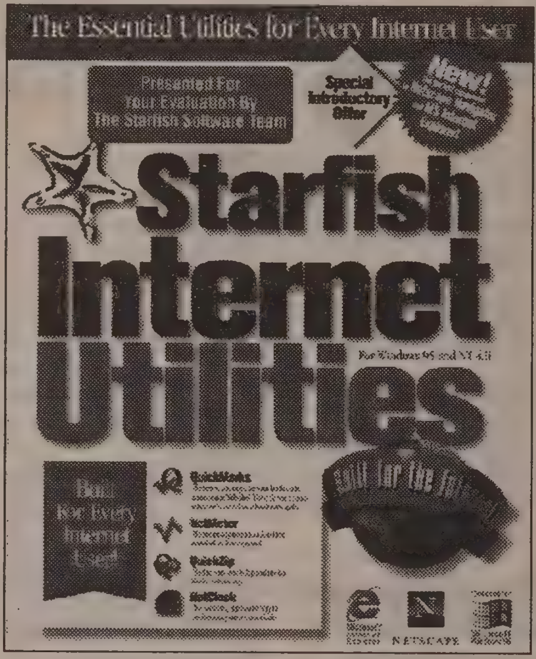
WebSENSE

WebSENSE, an Internet content system designed specifically for corporations, allows businesses to define and enforce Internet access privileges by screening out sites deemed inappropriate for business use. It works in conjunction with a database of more than 40,000 URL addresses in twenty-six categories. Management decides which categories are acceptable areas for access and which should be blocked. The database is updated on a daily basis and subscribers receive the list automatically each night. WebSENSE is designed to run on a Windows NT server. (Prices range from $495–$7995 depending on the size of the network) Net Partners Internet Solutions, Inc., 9665 Chesapeake Dr., Ste. 350, San Diego, CA 92123. 1-800-723-1166. URL *http;//www.netpart.com/* .

Starfish Internet Utilities

Starfish Internet Utilities, a collection of utilities for Internet and intranet users, includes QuickMarks, InternetMeter, QuickZip, and InternetClock. QuickMarks visually organizes frequently visited Web sites for faster and easier Web browsing using customized tabs. InternetMeter creates easy-to-read logs of Internet and online connections. QuickZip compresses and decompresses files with drag-and-drop simplicity for faster upload and download times. InternetClock synchronizes a user's system clock to an Internet time server for absolutely correct time. Users may also track time in up to four different cities to quickly schedule communications across time zones. ($69.95) Starfish Software, Inc., 1700 Green Hills Rd., Scotts Valley, CA 95066. (408)461-5800. URL: *http://www.starfishsoftware.com* .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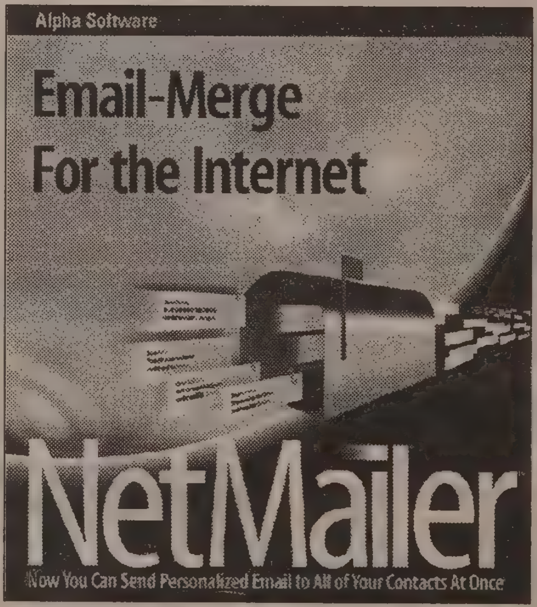
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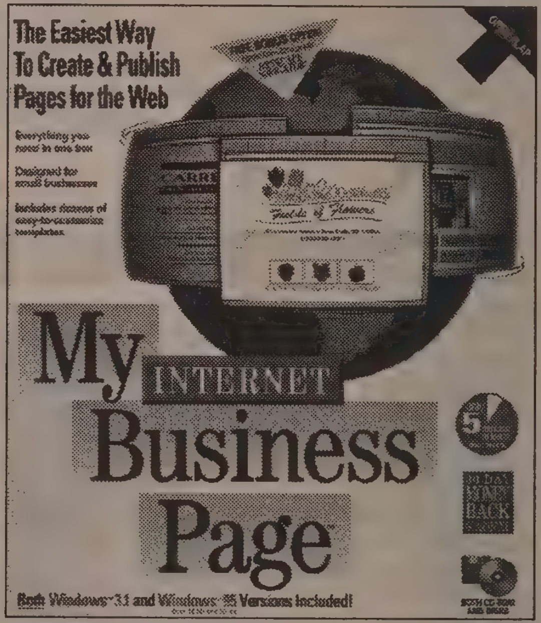
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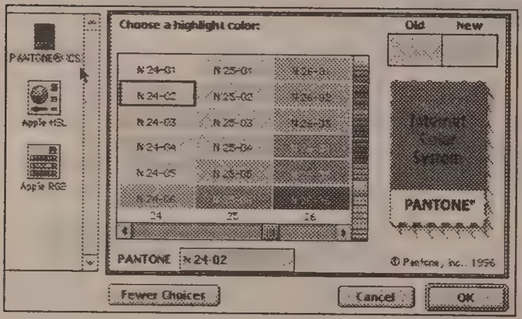

Pantone ColorWeb is a set of tools for designing and accurately managing colors for publishing and viewing over the Internet. It utilizes the Pantone Internet Color System (PICS), a cross-platform, dither-free palette of numbered and chromatically organized colors, to provide designers with a method for using colors that can be viewed accurately, regardless of monitor or platform. The color values are provided in both RGB and Hexadecimal notation, making it easy for Web authors to specify colors in Web design software or HTML editors. The other major component of Pantone ColorWeb is the PANTONE Internet Color Picker, a Mac extensible, system-level color picker, providing access to the chromatically arranged 216 non-dithering colors available for use in creating Web pages. ($29.95) PANTONE, Inc., 590 Commerce Blve., Carlstadt, NJ 07072-3098. 1-800-222-1149.

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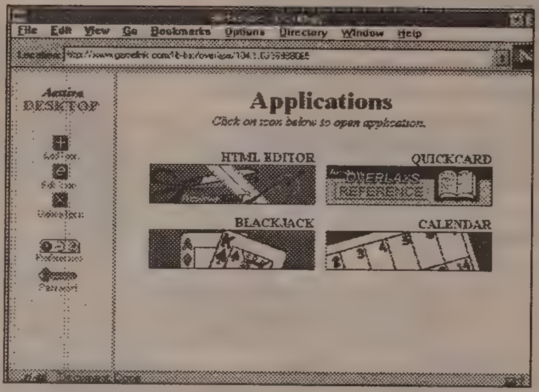
Aestiva Overlays lets you build Web sites without having to face the complexity of CGI (Common Gateway Interface) programming. Instead, developers place Overlay Tags (Otags) in their HTML documents. Otags perform many of the functions formerly requiring CGI scripts, including sophisticated user tracking, setting up password-restricted areas, mail formatting, customized shopping lists, mathematical functions, and more. ($799, for UNIX and Windows NT servers) Aestiva, LLS, 1001 Hermosa Ave., Ste. 205, Hermosa Beach, CA 90254. (310)318-1150. URL: *http://www.aestiva.com/* .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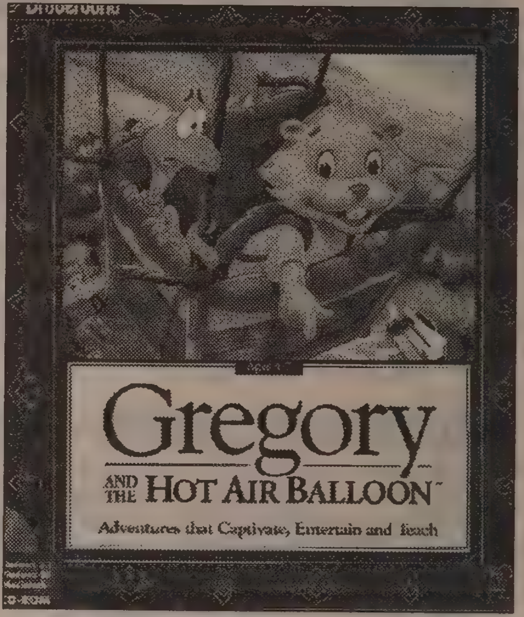
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Adventures that Captivate, Entertain and Teach

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• Intel Triton Pentium® 166Mhz/256K	$499	$609
• Intel Triton Pentium® 200Mhz/256K	$649	$759
• Intel Advanced/EV/AS P-100Mhz/256K*	$389	$499
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• Intel Advanced/EV/AS P-166Mhz/256K*	$629	$749
• Intel Advanced/ML/P-100Mhz/256K	$289	$459
• Intel Advanced/ML/P-120Mhz/256K	$319	$489
• Intel Advanced/ML/P-133Mhz/256K	$369	$549
• Intel Advanced/ML/P-150Mhz/256K	$439	$619
• Intel Advanced/ML/P-166Mhz/256K	$539	$719
• Intel Advanced/ML/P-200Mhz/256K	$699	$879
• Intel VS440FX Pro 180Mhz/256K	$819	$999
• Intel VS440FX Pro 200Mhz/256K	$1229	$1389

*Barebone System: CPU & M/B, 8MB, 1.44MB FDD, IDE 1/0, Mini Case w/230W PS, 104 Keyboard, 256K Pipeline Burst Cache. * W/ATI 64/ or Diamond Stealth PCI 1MB Video & 16 Bit Sound Card.*

Video Graphic Card

Diamond	
Stealth 64 PCI w/1MB DRAM	$65
Stealth 64 PCI w/2MB DRAM	$79
Stealth 64 Video 2001 PCI w/1MB	$78
Stealth 64 Video 2001 PCI w/2MB	$98
Stealth 64 Video VRAM PCI w/2MB	$178
Stealth 64 Video VRAM PCI w/4MB	$278
Stealth 3D 2000 PCI w/1MB DRAM	$109
Stealth 3D 2000 PCI w/2MB DRAM	$129
Matrox	
MGA Millenium PCI w/2MB WRAM	$188
MGA Millenium PCI w/4MB WRAM	$278
MGA Millenium 2MB WRAM Upgrade	$Call
MGA Mystique 3D Video w/2MB	$178
ATI	
Graphic XPression PCI w/1MB DRAM	$79
Graphic XPression PCI w/2MB DRAM	$99
Graphic Pro Turbo PCI w/2MB VRAM	$199
Graphic Pro Turbo PCI w/4MB VRAM	$289

Monitor

Digiview	
Digiview 17" 1708/1710F	$545/$685
Digiview 15" 1508	$315
Digiview 14" 1434	$215
Impression 15"/17".	$315/$499
Sony	
Sony 15" SXI/SFII	$378/$465
Sony 17" SFII/SEII	$735/$935
Sony 20" SFII	$1565
Nanao	
Nanao 17" F2- 17/T2- 17	$799/$935
NEC	
NEC 15" 15XV+	$459
NEC 17" 17XV+	$765
NEC 21" XE21/XP21	$1639/$1899
Viewsonic	
Viewsonic 15" ESIGS/GA	$345/$385/$445
Viewsonic 17" EA/GA/PS	$595/$665/$685
Viewsonic 20"GL/21PS	$1095/$1535

Hard Drives

Fujitsu	
1.2 GB/2.5 GB IDE	$199/$299
Quantum	
1.2 GB IDE	$179
2.1 GB IDE	$259
Maxtor	
1.3 GB IDE	$199
1.6 GB IDE	$219
2.1 GB IDE	$259
Western Digital	
850MB/1.2 GB IDE	$159/$199
1.6 GB/2.1 GB IDE	$229/$279
2.5GB/3.1 GB IDE	$299/$349
Seagate	
850MB/1.2 GB IDE	$149/$189
1.6GB/2.1 GB IDE	$209/$269
4.2GB FSCSI-2 (ST15150N/W)	$ CALL
Controller	
Adaptec 2940U/2940UW	$199/$239
Adaptec 3940/3940UW	$CALL

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1. 1 YEAR PARTS, LIFETIME LABOR ON SYSTEMS,
2. PRICES AND AVAILABILITY SUBJECT TO CHANGE WITHOUT NOTICE.
3. FREE PHONE SERVICES OR IN HOUSE SERVICES
4. NOT RESPONSIBLE FOR TYPOS.
5. 15% RESTOCKING FEE ON ALL RETURN ITEMS WITHIN 7 DAYS, EXCLUDES PERIPHERALS AND SOFTWARE.
6. NO REFUND AFTER 7 DAYS.

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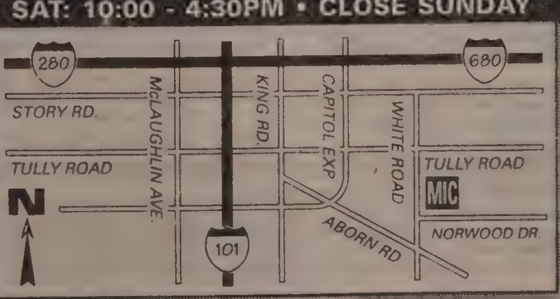
SAT: 10:00 - 4:30PM • CLOSE SUNDAY



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3COM Network Card	
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3C509BC 16 Bit Combo	$99
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3C590C PCI Combo	$129
3C905 /100 Base-TPCI	$129
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SMC 8616BT 16 Bits Combo	$85
SMC 8432BT PCI Combo	$125
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Fax/Modem 14.4/28.8	$29/$79
Fax/Modem 33 .6/w/Voice	$85/$95
SupraExpress PnP 28.8	$95
SupraExpress PnP 33.6 w/Voice	$105
USRobotics Winmodem 33.6	$95
USRobotics Sportster 33.6	$135
USRobotics Sportster 33.6 w/Voice	$149
USRobotics Sportster 33.6 Ext	$169

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Sound Card	
Sound ESS 16Bit	$39
Sound Blaster 16 PnP	$75
Sound Blaster 32 PnP	$125
Sound Blaster AWE32 w/ASP	$235
Speakers	
80W Stereo Speaker	$25
120W Stereo Speaker	$45
Jazz Speaker 300W 2 Ways Hifi	$169
Jazz Speaker 300W 3 Way Hifi	$179
Jazz Sub-Woofer 300W System	$175
CD ROM	
Funai/Goldstar 8X Speed IDE	$99
Sony CU311 8X Speed IDE	$105
Toshiba 5602B 8X Speed IDE	$119
Mitsumi/Phillips 10X Speed IDE	$129
Teac 6X Speed SCSI	$155
Toshiba 8X Speed SCSI	$235

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Serving Silicon Valley since 1964!

...brings you a potpourri of high-tech goodies for the techno-tinkerer!
For thirty years we have been your source for Silicon Valley exotica!

Wide-SCSI Hard Drive

- Seagate ST5660NC 545MB Wide-SCSI Hard disk drive
- Features new 68-pin connector "Wide-SCSI" standard
- 3.5" form factor, only .75" high!
- New in factory-sealed antistatic envelope
- Limited quantity available, hurry before they're gone!
- Commonly used in workstations, UNIX boxes, etc.

HSC#16165 **$169.00**

486 Motherboard Deal!

- Brand-new 486 DX-33 Motherboard (no CPU chip)
- ISA bus uses most commonly available plug-in cards
- Five sixteen-bit ISA sockets, two eight-bit sockets
- Eight 30-pin SIMM memory sockets
- Includes 256K cache, AMI BIOS (installed)
- OEM white box with manual
- Baby AT size -- Ninety day warranty
- CPU Available -- 486DX33 HSC#16214 $19.95

HSC#16152 **$27.50**

VGA-to-Video Converter!

- Send your computer's vidoe output to a TV or VCR!
- Use your laptop and a television monitor for presentations
- Geni VGA to TV converter is small (4.5" x 2" x 2")
- Can be used at the same time as your monitor
- Output is NTSC Composite video, from 640 x 480 VGA
- New in case with AC adaptor, manual

HSC#16151 **$29.95.**

Peltier Cooler at a Price!

- Made for cooling ceramic Pentium Processors (not metal)
- Heatsink is 2" x 2.875", .5" thick
- Mounted 12VDC fan
- Peltier device is 1.125" square, has copper plate for themal mounting on CPU
- Unit is new, and much cheaper than the separate parts!
- Perfect for Peltier experiments!

HSC# 16106 **$24.95**

DTC Disk Controllers!

- If you know computers, you know of Data Technology Corporation's reputation for robust device controllers!
- Unused in OEM packaging with Software & Info Sheet
- Many bus formats & drive types supported
- All have our 90-day warranty -- **Now, Lower Prices!**

DTC-2130S	**HSC# 15837**	**$9.95**
☞ PCI Bus controller for two E-IDE drives (no FD)		
DTC-2130D	**HSC# 15838**	**$14.95**
☞ PCI Bus controller for four E-IDE drives (no FD)		
DTC-2278VL	**HSC# 16067**	**$7.95**
☞ ISA Bus IDE Controller (no floppy drives)		
DTC-3274	**HSC# 15841**	**$95.00**
☞ VLB SCSI-2 Bus-Mastering HD/FD controller		
DTC-2277A	**HSC# 16066**	**$27.50**
☞ Caching VLB E-IDE controller with floppy controller		
DTC-3150V	**HSC# 80376**	**$19.95**
☞ 8-bit Non-bootable SCSI (perfect for Reno!)		

Full-screen MPEG Video!

- REALmagic Maxima MPEG playback controller by Sigma Designs enhances your multimedia capability!
- Get full-screen, full motion video with CD-quality sound!
- Up to 1280 x 1024 resolution, 30 frames/sec.
- 16-bit ISA Bus card connects to your VGA card and to your sound card with included cables
- Demo CD's (Silent Steel, Flash Traffic interactive thrillers), book and software included
- REALmagic Interactive and OM-1 compatible
- New in retail box, 5-year manufacturer's warranty!

REALmagic MAXIMA

HSC# 16062 **$149.00**

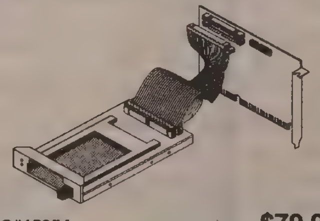
Hand-Scanner Special!

- Logitech ScanMan 256-Bit Grayscale hand-scanner
- 100 - 400 dpi resolution, hardware (switch) selectable
- Factory Refurbished, 90-day warranty
- Includes Fototouch image acquiring & editing software, Omnipage OCR software
- Latest Windows 95 drivers included
- Comes with manuals, power supply, 16-bit interface card

HSC#15986 **$34.95**

PCMCIA Card Reader

- IBM Compatible Reader/Writer for PCMCIA Cards
- SwapBox by SCM Microsystems with 16-bit ISA Bus card
- Convenient front access for slots (not in rear of system)
- Fits in 3.5" drive bay, or use included 5.25" bracket
- Dual slot, Type I, II or III, hot swappable
- Perfect for transferring data or hardware from laptops, notebooks or Kodak Cameras to desktop PC's
- Includes driver disk, manuals, cable, internal card, bracket
- New in OEM package (white box), 90-day warranty



HSC#15954 **$79.95**

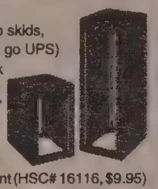
PCMCIA SCSI Card

- Mediavision PCMCIA SCSI II Card for Laptops
- Use with CD/ROM Drives, WORM Drives, Hard Drives, Scanners, any SCSI I or II device
- Bundled with Corel SCSI (ver. 2.04) software
- Cable, installation software, manual included
- Would make excellent laptop connection to *Reno*, above
- New in box with software, 90-day warranty

HSC# 15893 **$79.00**

House that Equipment!

- Beautiful, black, brand-new 19" rack cabinets!
- Two sizes to choose from:
  - ☞ Short Cabinet is 29.5" tall, with room for 21" of vertical instrument height
  - ☞ Taller Cabinet is 50.5" tall, with room for 42" of vertical instrument height, and has louvered vents on the top panel
- Both sizes are 23.25" wide, and 30" front-to-back
- Both include front and back threaded rails, as well as an interior set for support of heavy equipment
- Made by AMCO Engineering
- Units are new in box, strapped to skids, ready for truck shipment (cannot go UPS)
- Cabinets are textured matte-black finish, would be perfect for high-end audio components, musicians' sound reinforcement equipment, rack mount computers, etc.
- Also available: Slide-out rail sets for convenient access to equipment (HSC# 16116, $9.95)



HSC# 80398 Short 19" rack cabinet **$149.00**
HSC# 80399 Tall 19" rack cabinet **$289.00**

Orchid MPEG + Video!

- Orchid Technology Kelvin MPEG Video Card
- 64-bit graphics with MPEG Video on one card!
- Full screen 30 Frames/sec MPEG video plus audio
- 1MB version will display up to 800 x 600, 64K colors, or 1024 x 768, 256 colors
- Manual, audio cable & driver software included
- Note, the MPEG portion is not Win95 compatible, but the video portion is. Everything works fine with Windows 3.1
- OEM pack (plain white box) Ninety day HSC warranty

HSC# 16124 **$69.00**

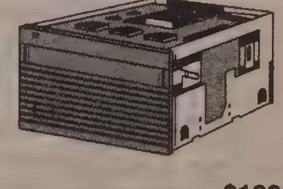
Joystick Extravaganza!

- Just in time for Christmas -- joysticks for computer games!
- Two types to choose from: the FX-2000 or Wico Merlin
- Form fitting joysticks work with either hand
- Suction-cup feet anchor them for lightning fast action!
- New in box - 30 day warranty

HSC#16212 Suncom FX-2000 Joystick **$3.95**
HSC#16211 Wico Merlin Joystick **$3.95**

Erasable Optical Drive

- Maxoptix (by Maxtor) Tahiti I Removable Media Drive
- 35nS avg. access time, 680kB/S transfer rate
- SCSI Interface, 5.25" Full Height Form Factor
- Used, tested good, 90-day warranty
- Uses 650MB or 1GB cartridges
- Use of high quality, fan cooled dust-filtered enclosure highly recommended, keep temp. below 75°F!
- Able to run files from drive, unlike tape backup units



HSC# 15995 **Tahiti I Optical Drive** **$199.00**
HSC#15996 **New 650MB cartridge** **$49.95**

3-D SCSI-2 Sound Card

- Mediavision **Premium 3-D** high-quality sound card
- 16-bit audio, 44.1KHz digitized stereo sound
- MPU 401 MIDI, Soundblaster compat., SRS 3-D circuitry
- Internal SCSI-2 CD-ROM port, microphone jack (mike not included), line-in, speaker jack, joystick port
- Includes driver disks, photocopied book
- OEM package (no box), 90-day warranty
- We had these and ran out...New Stock at Lower Price!

HSC#16164 **$39.95**

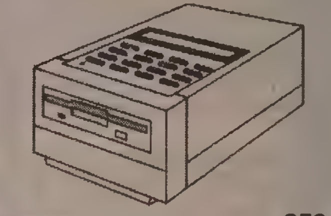
Tricky Tuned Mag-Switches!

- Ordinary magnetic switches used on doors and windows in security systems can be defeated by secretly placing another magnet next to the switch on the frame, where it doesn't move
- These government-spec. magnetic switches are carefully biased so that they only respond to their matched magnet.
- Box is 4.75" x 2.5" x 1.75", magnet is 4.75" x .5" x 1.75"
- Rugged die-cast box is gasketed, and has tamper switch
- New in box, buy six and save! Retail is over $25 each!

HSC#16056 **$9.95** ea., or **6/$50.00**

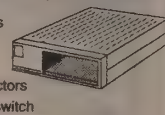
FaxBoy for paperless FAX!

- High performance fax machine, saves space and paper!
- D2 FAX by Seponix with FaxBoy software uses 3.5" floppy disks rather than paper for input/output
- May be used as back-up to existing fax machine, or as a stand-alone fax machine
- Units are new in box with software, power supply, manuals
- Measures only 5" x 8" x 3.5"
- View and compose faxes on your DOS computer, use top keypad to program unit and send faxes
- 90-day Warranty



HSC# 80400 **$59.95**

SCSI Drive Case Deal!



- Low-profile case for 5.25" drives
- Perfect for CD-ROM drive
- 9.75" x 2.25" x 11" overall size
- 50-pin SCSI daisy-chain connectors
- Internal 50-pin cable, SCSI ID switch
- 30-watt power supply, DC Fan cooled
- New case is attractive grey color, has 90-day warranty

HSC# 16185 Low-Profile 5.25" Drive Case **$29.95**

New Price for SCSI Sound!

- Mediavision **ProAudio Spectrum 16** sound card
- 16-bit audio, 44.1KHz stereo sound
- MPU 401 MIDI emulation, Soundblaster compatible
- Internal SCSI CD-ROM port, microphone jack (mike not included), line-in, speaker jack, joystick port
- Includes driver disk, information sheet (no book)
- OEM package (no box), 90-day warranty

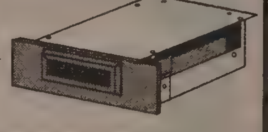
HSC#15797 **$29.95**

Tape Backup Bargain!

- Irwin AccuTrak 31250A 250MB tape drives
- Brand new in box with 90-day warranty
- "Backup Exec" software for DOS/Windows 3.XX included
- Hooks to floppy controller with included insertion cable
- Comes with brackets and 5.25" faceplate for mounting in regular half-height drive bay, but can be mounted in 3.5" bay with optional faceplates below
- Made for IBM so you know it's rugged!
- Includes new 250MB unformatted tape (allow approx. 2 hours to format)

HSC#15805 **$39.95**

Dealer Inquiries Invited!



-- Irwin Tape Backup Accessoriess --

3.5" Faceplate, Light Gray	**HSC# 15807**	**$2.95**
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- **32MB** EDO RAM (60ns, 72 pin)
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- **2MB Matrox Millennium** WRAM PCI Graphics Card
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- Keytronic Keyboard
- Logitech PS2 Mouse
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- 7 Year Labor, 1 Year Parts Warranty
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200MHz $3299

Free Pentium® Pro System Natoma 440FX Chipset 256K Cache, 16MB EDO, 2MB VRAM, 2.0GB, 17" MAG 1795

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- 16MB EDO RAM (Max 256MB)
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- ATX Torm Medium Tower Case
- 104 Keytronic Keyboard
- Logitech Mouseman PS2
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- 8X Toshiba IDE CD-ROM
- Windows NT 4.0 Workstation

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- Pentium® processor based PC with high quality ASUS PCI Motherboard & CPU Fan
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- Enhanced PCI HD Controller w/High Speed I/O
- **2MB Diamond Stealth 64 VRAM** PCI·Graphic Card
- Medium Tower Case with 2 Cooling Fans
- 101 Keyboard (Keytronic or Focus 2001 Click)
- Logitech Mouseman
- 17" MAG 1795 1280x1024 .26 MPR-2 Green Monitor
- 7 Year Labor Warranty, 1 Year Parts Warranty

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166MHz $1834
150MHz $1734
133MHz $1669
100MHz $1599
120MHz $1619

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- Pentium® processor based PC with CPU Fan matched to high quality Motherboard manufactured by FREE
- Intel Triton 3 Chipset
- **256K** Pipeline Burst Cache
- **16MB** EDO RAM (Max 128MB)
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- **1.6 Maxtor** Hard Drive
- Enhanced PCI HD Controller w/High Speed IO
- 1MB Diamond Stealth 64 Graphics Card
- Medium Tower Case with 2 Cooling Fans
- 101 Enhanced Keytronic or Focus Keyboard
- Logitech Mouseman
- 15" Proton 1280x1024 .28 MPR-2, digital, Green Monitor
- 7 Year Labor Warranty, 1 Year Parts Warranty

200MHz $1554
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486 System with 33.6, CD, 256K, 8MB, 1.3GB, SVGA NI

- **8MB RAM** 70ns, 72pin, Exp to 128MB
- 1.3GB Maxtor Hard Drive
- 1.44MB 3.5" Floppy Drives
- Enhanced PCI Controller
- 2 Serial, 1 Parallel Ports (High Speed)
- 1MB Trident 9680 PCI Graphics Card w/MPEG Capability
- 33.6 Fax Modem, Sound Card, & Speakers
- Toshiba 8X CD-ROM Drive
- Medium Tower w/Power Supply
- 101 Enhanced Mitsumi Keyboard
- Mitsumi Mouse
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- CPU Cooling Fan
- 7 Year Labor Warranty, 1 Year Parts Warranty

AMD 486DX4 133MHz $979

CONTROLLERS

IDE w/IO	$15
Adaptec 2940 PCI SCSI-2	189

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ESS 16 Bit	$49
Sound Blaster 16	79
Sound Blaster 32	134

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14,400 Fax Modem w/MNP v.42	$49
33,600 Modem/14,400 Fax w/V.34	92
33,600 Modem/14,400 Fax w/V.34, Ext	159

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Mini Tower w/230W	$39
Medium Tower w/230W	59
Full Tower w/250W	79
Full Tower w/300W	119
ATX Form Medium Tower	114
Desktop Case w/230W	45
230W PS	29
300W PS	69
IDE/SCSI HD Removable Kit	35/36

MOUSES

Logitech Mouseman Serial	$35
Logitech Dexxa Serial	15
Mitsumi Mouse	12

OPERATING SYSTEM (w/System Purchase)

Windows 95, CD ver.	$99
Windows NT 4.0 Workstation.	189

DISPLAY CARDS

1MB Trident ISA	$49
1MB Trident PCI	49
1MB Diamond Stealth 64 DRAM PCI	75
2MB Diamond Stealth 64 DRAM PCI	89
2MB Diamond Stealth 64 VRAM PCI	179
2MB Matrox Millennium WRAM PCI	214
4MB Matrox Millennium WRAM PCI	289

SVGA NON-INTERLACED MONITORS (Green)

14" Proton 1024x768 .28	$239
15" Proton 1280x1024 .28 Green Digital	309
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17" MAG 1795 1280x1024 .28 Green Digital	594
17" MAG MXP17 1600x1280 .26	724

DRIVES

Teac 1.2MB/1.44MB	$47/37
Panasonic 1.2MB/1.44MB	46/36

MULTIMEDIA

8X Speed Toshiba IDE CD-ROM Drive	$119
80 Watt Speakers, Magnetically Shielded	39

30 to 72 Pin SIMM Converter Available

$15

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- 8MB=4MBx2 70ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- 850MB Western Digital WDAC2850 E-IDE HD
- Trident 9680 PCI 1MB MPEG+AVI Video Card
- 14" ShamRock 1Kx768NI Pwr-Saving Monitor
- Premium Digital Mini Tower 230W PS
- Mitsumi 104 Key Enhanced Win95 Keyboard
- Mitsumi Serial Mouse w/ Pad
- Legitimate MS Windows 95 Full CD + Manual + installed + fully-configured

Cyrix® 686

P133+ $815
P150+ $835
P166+ $878

Intel Pentium®

P100 $860
P133 $930
P166 $1099
P200 $1297

Intel Marl P5 Triton II

- Intel Marl Advanced/ML® ATX PCI Motherboard - 256KB pipelined burst cache onbrd, Intel 430HX PCISet, built-in PCI-IDE interfaces, FD, 2 16550 UARTs, ECP/EPP, Socket 7, upto 128MB, 75Mhz and up CPU speed support, PnP, etc...
- Genuine Intel Pentium® Processor w/ Cooling Fan
- 16MB=8MBx2 60ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- 1.2GB Western Digital WDAC31200 Mode 4 E-IDE HD
- Trident 9680 PCI 1MB MPEG+AVI Video Card
- 15" ShamRock 1280x1024NI Pwr-Saving Monitor
- Premium ATX style Medium Tower 235W ATX PS
- Mitsumi 104 Key Enhanced Win95 Keyboard
- Mitsumi PS/2 Mouse w/ Pad
- Legitimate MS Windows 95 Full CD + Manual + installed + fully-configured

Intel Pentium®

100MHz $1089
133MHz $1159
166MHz $1328
200MHz $1526

DIAMOND MULTIMEDIA

Dear Derek,

Thank you for lending us the Pentium 133mhz systems for the CGD[illegible] Developer Conference) and WINHec (Windows hardware engineerin[illegible] shows. The systems were great and were very reliable. I also appr[illegible] Pentium P166mhz systems that you were able to put together within [illegible]

Once again, I like to thank you, and your staff for your invaluable co[illegible] couldn't have done it without you.

Huy Nguyen

Product Marketing Engineer

Ken Wu
UMiracle Microsystems
44063 Fremont Blvd.
Fremont, CA 94538

UMiracle is the system provider we choose when we are looking for desktop personal [illegible] our company. As a software developer, we are continually seeking the latest technolo[illegible] enhance our computing environment. We have purchased most of our new desktop [illegible] UMiracle over the past few years, and these systems have been very reliable and give u[illegible] for our spending dollar. We have also utilized UMiracle's technical engineering staff [illegible] upgrading of our systems, which is very good in suggesting a variety of choices in the [illegible] process. We choose UMiracle for its helpful and responsive sales team, knowledgeabl[illegible] staff, and overall competitive pricing.

UMiracle is a computer hardware vendor that stands out, and fulfills our computing [illegible] [illegible]culties, UMiracle stands behind [illegible]

[illegible]s at ve[illegible]

TomCat III Dual Pentium

- TYAN Tomcat III S1563D Dual Pentium® ISA-PCI motherboard, Intel® 430HX Chipset, support Dual Pentium®/Cyrix® 75-200Mhz, 5 ISA+4 PCI slots, onbrd PCI Bus-Master IDE interfaces, HiSpd I/O, FD, Dual ZIF Socket, Flash Award PnP BIOS, support FP/ECC 72Pin SIMM upto 512MB, Pipelined Burst 512K Cache built-in
- Genuine Intel Pentium® Processor(s) w/ Cooling Fan(s)
- 32MB=16MBx2 60ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- 2.1GB Western Digital WDAC32100 Mode 4 E-IDE HD
- Mitsumi FX-8X EightSpeed IDE 1200KB/S CD-ROM
- Sound Blaster Compatible 16Bit PnP Stereo Sound Card
- Diamond Stealth64 DRAM 2MB 2000 Series Video Card
- 15" Mag Innovision DX95 Series 1595 1280x1024NI Monitor
- Premium Digital Medium Tower 230W PS
- KeyTronic 104 Key Win95 PS/2 Keyboard
- Mitsumi Serial Mouse w/ Pad
- Pair of 60Watt Stereo Speakers
- Legitimate MS Windows 95 Full CD + Manual + installed + fully-configured

Intel Pentium®

166MHz $1852
200MHz $2056
Dual 166MHz $2250
Dual 200MHz $2657

Intel Tucson w/Audio

- Intel Tucson TC430HX Pentium® processor-based Board - Intel 430HX PCISet, Pipelined Burst 256K Cache onbrd, 75Mhz & up CPU support, 4 PCI+3 ISA slots, FP or EDO 72Pin SIMM support upto 128MB, Socket 7, built-in PCI-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP, 4 IDE HDs support, PnP Flash AMI ROM, APM Power Saving, Built-in Yamaha OPL3 FM Synthesizer stereo sound w/line-in/out, Joystick, WaveTable connector
- Genuine Intel Pentium® Processor w/ Cooling Fan
- 16MB=8MBx2 60ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- 1.6GB Western Digital WDAC31600 Mode-4 E-IDE HD
- Mitsumi FX-8X EightSpeed IDE 1200KB/S CD-ROM
- Diamond Stealth64 DRAM 2MB 2000 Series Video Card
- 15" Mag Innovision DX95 Series 1595 1280x1024NI Monitor
- Premium ATX style Medium Tower 235W ATX PS
- Mitsumi 104 Key Enhanced Win95 Keyboard
- Mitsumi PS/2 Mouse w/ Pad
- Pair of 60Watt Stereo Speakers
- [illegible] Windows 95 Full CD + Manual [illegible]

Intel Pentium®

100MHz $1367
133MHz $1436
166MHz $1605
200MHz $1803

UNIVERSITY OF CALIFORNIA AT BERKELEY

BERKELEY • DAVIS • IRVINE • LOS ANGELES • RIVERSIDE • SAN DIEGO • SAN FRANCISCO   SANTA BARBARA • SANTA CRUZ

INTERNATIONAL AND AREA STUDIES
OFFICE OF THE DEAN

BERKELEY, CALIFORNIA 94720
FAX: (510) 642-9466

Tuesday, July 2, 1996

Over the last two years, the International and Area Studies division of the University of California at Berkeley has been using UMiracle Microsystems computers for their workstations and servers. UMiracle has been our best choice for highly competitive pricing, proven customer response time, and system reliability.

When servicing our own customers, having a computer vendor whose sales and t[illegible] quick to respond is very important. UMiracle (and Ken Wu, in particular) has consist[illegible] with their timely and accurate responses. This has often beaten out other vendors w[illegible] time in responding to calls or never return them in the first place. When it c[illegible] difficulties, UMiracle stands behind their products and provides the best support poss[illegible]

In addition, UMiracle computers have been highly reliable for their competitiv[illegible] companies worry if they will obtain quality products when they purchase compute[illegible] With pricing that beats their competition, UMiracle has provided products that [illegible]

ULTRA SCSI

20MB/S DTR Is Here!!!

P5 430VX+Ultra SCSI

- Quick P55TV PCI Pentium® processor-based board w/ Built-in Adaptec® PCI SCSI chipset 7860 (AHA-2940U Ultra SCSI), Sound Blaster 16 PnP Stereo Sound built-in, 50Pin Fast SCSI-2 & Ultra SCSI, Pipelined Burst 512K Cache onbrd, Intel Triton II 430VX chipset, ZIP Socket 7, PCI+5 ISA slots, FP or EDO 72Pin SIMM & 168PIN DIMM support upto 128MB, built-in PCI-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP, 50pin SCSI + FD/HD/IO cables, PS/2 mouse port & EZ-SCSI V4.0L
- Genuine Intel Pentium®/Cyrix® 6x86 Processor w/ Alarm Cooling Fan
- 32MB=16MBx2 60ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- IBM 2.25GB UltraStar-ES DORS32160U, 7.8MS, 5400RPM, 512K Ultra SCSI-2 HD
- Mitsumi FX-8X EightSpeed IDE 1200KB/S CD-ROM
- Sound Blaster Compatible 16Bit PnP Stereo Sound Card
- Diamond Stealth64 Video VRAM 2MB 3000 Series Video Card
- 17" Mag Innovision DX95 Series 1795 1600x1280NI Monitor
- Premium Digital Medium Tower 230W PS
- KeyTronic 104 Key Win95 PS/2 Keyboard
- MicroSoft Ergonomic Serial Mouse w/ Pad
- Pair of 80Watt Stereo Speakers
- Legitimate MS Windows 95 Full CD + Manual + installed + fully-configured

Intel Pentium®

P5-100 $2021
P5-133 $2092
P5-166 $2266
P5-200 $2469

Cyrix® 686 CPU

P150+ $1994
P166+ $2038

OUR SERVICE, OUR COMMITMENT

- [illegible] figured, DOS V6.22, Windows [illegible] tested and carefully [illegible] and finally interactively inspected for trouble-free operation. All systems are to be inspected by customer at pick up time.
- Most advertised standard systems have been pre-built, burn-in tested and are ready to be picked up or delivered within 60 minutes IN [illegible] Please allow more time for minor configuration changes. Standard delivery time is 72 hours.
- Free delivery area includes local area within 30 minutes driving distance. No delivery on weekends. Delivery out of local area will be charged up to $30 freight.
- Most components come with over 1 year manufacturer warranty - First year will be covered by UMiracle. Warranty after the first year will be covered by component manufacturers.
- While-you-wait immediate service should there be any necessary warranty repair. If we couldn't solve the problem, another system will be built (at our discretion, if purchased within 30 days.)
- All pickups, repairs, exchanges, upgrades can be done in either Fremont, Belmont or Albany store. Original invoices & records required.

[illegible]ICAN MEDICAL MANAGEMENT
2200 Powell St., Suite 455
[illegible]eryville, CA 94530
(510) 450-1500
[illegible] (510) 446-7477

1035 San Pablo Ave., Ste. 1
Albany, CA 94706

To whom it may concern

We have been delighted to have UMiracle as our sole provider of computer systems hardware for our 7 server 100+ user wide area network over the past year. The se[illegible] timely, reliable and extremely courteous. In addition to superlative service in the form [illegible] salespeople and knowledgeable and (most importantly) accessible support technicians have been extremely competitive.

During the past year our organization has grown from approximately 20 PCS and 2 fil[illegible] approximately 75 PCS with several laptops and 5 file servers distributed over 3 sites a[illegible] supplied virtually all of our hardware. In the health care management industry reliabili[illegible] of data is of the utmost importance and the hardware supplied by UMiracle has prov[illegible] reliability. In a few rare instances when there has been a problem with either hardwa[illegible] configuration, hardware was politely and promptly replaced and helpful tech support [illegible] available.

UMiracle succeeds in all three of the most import aspects of a computer hardware ve[illegible] excellent support and competitive pricing, and we will continue to rely upon them for [illegible]

Sincerely,

Santa Clara, CA 95052-8119
(408) 765 8080

intel.

Spade Chan
UMiracle Microsystems
44063 Fremont Blvd
Fremont, CA 94538

UMiracle is the computer product provider we choose when we are lookin[illegible] computer hardware or software for our company. As a validation engineer, [illegible] continually seeking the latest technology as we enhance our testing enviro[illegible] have purchased most of our new hardware & software from UMiracle over [illegible] months, and these products have been very reliable. We have also utilized [illegible] technical engineering staff in the product choosing process which is very g[illegible] suggesting a variety of choices and cost effectiveness. We choose UMiracl[illegible] and responsive sales team, knowledgeable technical staff, and overall com[illegible] pricing.

UMiracle is a computer product vendor that stands out, and fulfills our co[illegible] in a responsive manner. When it comes to technical difficulties, UMiracle [illegible] their products and provides efficient and prompt support.

Optional:		
	MS DOS V6.22 + Windows V3.11	Add$0
	MS DOS V6.22 + Windows for WorkGroup V3.11	Add$20
	Windows NT 4.0 Workstation/Server	Add$69/$529

UMiracle

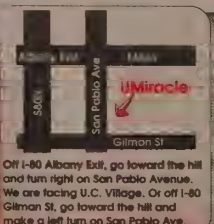
UMiracle Microsystems

44063 Fremont Blvd. Fremont CA 94538
Phone:510-226-3666 Fax:510-226-6758
1035 San Pablo Ave#1 Albany CA 94706
Phone:510-526-2626 Fax:510-526-0273
1501#E El Camino Rl. Belmont CA 94002
Phone:415-592-3333 Fax:415-592-2919

DISCOVER
ATM
VISA
MasterCard

Albany Store

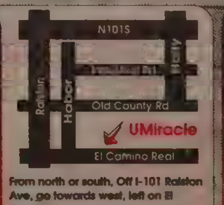
Ph:510-526-2626
1035 San Pablo Ave #1
Albany CA 94706
[illegible]
Fax 510-526-0273
[illegible]



Off I-80 Albany Exit, go toward the hill and turn right on San Pablo Avenue. We are facing U.C. Village. Or off I-80 Gilman St, go toward the hill and make a left turn on San Pablo Ave.

Belmont Store

Ph:415-592-3333
1501 El Camino Real #E
Belmont CA 94002
[illegible]
Fax 415-592-2919
[illegible]



From north or south, Off I-101 Ralston Ave, go towards west, left on El Camino Real and make a U-turn ASAP. We are on your right.

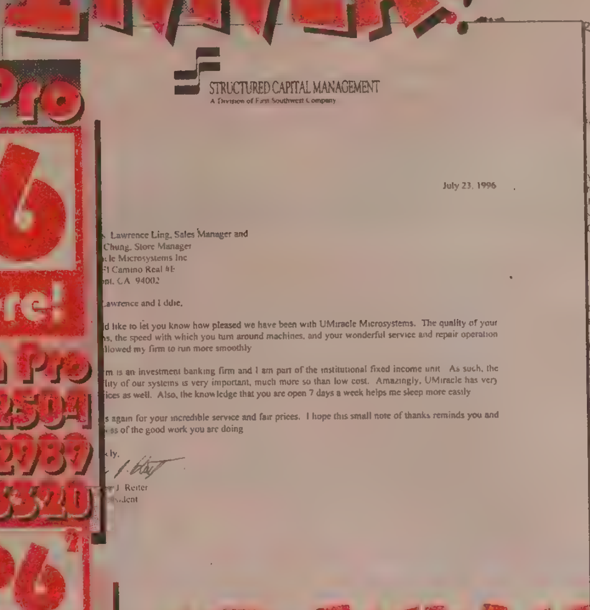
Fremont Main

Ph:510-226-3666
44063 Fremont Blvd
Fremont CA 94538
[illegible]

Auto Mall Pkwy.(Old Durham Rd)
S880N
Grimmer Blvd
Technology Dr.
UMiracle
Fremont Blvd.

Off I-880 Auto Mall Pkwy East, pass Technology Drive and make a right on Fremont Blvd, (or off 680 Durham, go west, pass Osgood Rd, then make a left on Fremont Blvd.) first driveway on your right.

AND BE A WINNER!



STRUCTURED CAPITAL MANAGEMENT
A Division of First Southwest Company

July 23, 1996

Lawrence Ling, Sales Manager and
Chung, Store Manager
cle Microsystems Inc
El Camino Real #E
nt, CA 94002

Lawrence and Eddie,

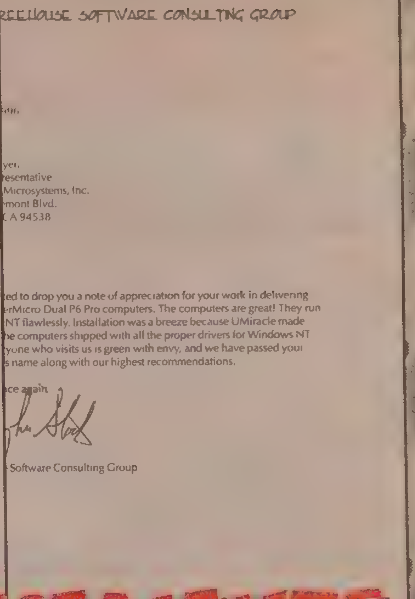
d like to let you know how pleased we have been with UMiracle Microsystems. The quality of your s, the speed with which you turn around machines, and your wonderful service and repair operation llowed my firm to run more smoothly

m is an investment banking firm and I am part of the institutional fixed income unit. As such, the lity of our systems is very important, much more so than low cost. Amazingly, UMiracle has very ices as well. Also, the knowledge that you are open 7 days a week helps me sleep more easily

s again for your incredible service and fair prices. I hope this small note of thanks reminds you and ss of the good work you are doing

ly,

J. Reiter
sident



REEHOUSE SOFTWARE CONSULTING GROUP

yer,
resentative
Microsystems, Inc.
mont Blvd.
CA 94538

ted to drop you a note of appreciation for your work in delivering erMicro Dual P6 Pro computers. The computers are great! They run NT flawlessly. Installation was a breeze because UMiracle made he computers shipped with all the proper drivers for Windows NT yone who visits us is green with envy, and we have passed your s name along with our highest recommendations.

ce again

Software Consulting Group

Intel Venus P6 Pentium® Pro

- Intel Venus Performance/VS Pentium® Pro motherboard w/256K Built-in CPU Cache - Intel® 440FX chpst, w/onbrd BusMaster IDE, HiSpd I/O, FD, PS/2 Keybrd+mouse ports, ZIF Socket 8, AMI PnP Flash BIOS, FP/ECC 72Pin SIMM upto 512MB, ATX Form Factor board
- Genuine Intel Pentium® Pro Processor w/ Cooling Fan
- 32MB=16MBx2 60ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- 2.5GB Western Digital WDAC32500 Mode 4 E-IDE HD
- Mitsumi FX-8X EightSpeed IDE 1200KB/S CD-ROM
- Sound Blaster Compatible 16Bit PnP Stereo Sound Card
- Diamond Stealth64 Video VRAM 2MB 3000 Series Video Card
- 17" Mag Innovision DX95 Series 1795 1600x1280NI Monitor
- Premium ATX style Medium Tower 235W ATX PS
- MicroSoft Ergonomic Natural Win95 Keyboard
- MicroSoft Ergonomic PS/2 Mouse w/ Pad
- Pair of 80Watt Stereo Speakers
- Legitimate MS Windows NT V4.0 Workstation CD + Manual + installed + fully configured

P6 is here!

Pentium Pro

180MHz 256k	$2504
200MHz 256k	$2989
200MHz 512k	$3320

TYAN Dual P6 Pro

- TYAN Titan Pro AT S1662 Dual Pentium® Pro PCI-ISA motherboard, dual CPU cooling fans, Intel 440FX Chipset, support Dual 150-200Mhz, 3 ISA+5 PCI slots, onbrd PCI Bus-Master IDE interfaces, HiSpd I/O, FD, Dual ZIF Socket 8, 2 VRM modules for future CPU support, Flash AMI PnP BIOS, FD/ECC 72Pin SIMM 4 way interleaved upto 1GB
- Genuine Intel Pentium® Pro Processor(s) w/ Cooling Fan(s)
- 64MB=32MBx2 60ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- Adaptec 2940UW Ultra Wide SCSI (40MB/s) Adaptor w/cable
- IBM 2.25GB UltraStar-ES DORS32160UW, 7.8MS, 5400RPM, 512K UltraWide HD
- Mitsumi FX-12X 12XSpeed ATAPI IDE 1800KB/S CD-ROM
- Sound Blaster 32 PnP Stereo Sound Card
- Diamond Stealth64 Video VRAM 4MB 3000 Series Video Card
- 21" Viewsonic P810 1600x1280NI, 0.25DP, PnP Monitor
- Server Class Super Case Dual-Fan Full Tower 250W PS
- MicroSoft Ergonomic Natural Win95 Keyboard
- MicroSoft Ergonomic Serial Mouse w/ Pad
- Pair of 120Watt Stereo Speakers
- Legitimate MS Windows NT V4.0 Workstation CD + Manual + installed + fully configured

P6 is here!

ULTRA WIDE
40MB/S DTR Is Here!!!

	Single	Dual
180MHz 256k	$4186	$5052
200MHz 256k	$4974	$6069
200MHz 512k	$5341	$6764

AMI Quad P6 Pro

- AMI (American Megatrends, Inc) Goliath Quad Pentium® Pro Processor EISA/PCI motherboard - U.S. designed & made 180/200MHz (or higher) 1/2/4 processors supported, easy processor upgrade thru CPU based board approach, 1GB memory max onboard with 72 pin slots, 4 way Interleave structure for max performance ECC supported, 168Pin DIMM supported, Intel 82450GX chipset, AMI Green Flash BIOS, 6 PCI + 4 EISA slots, Integrated I/O w/ 1P/2S/FD/2 PCI IDEs/PS2 mouse
- Genuine Intel Pentium® Pro Processor(s) w/ Cooling Fan(s)
- 128MB=32MBx4 60ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- Adaptec 2940UW Ultra Wide SCSI (40MB/s) Adaptor w/cable
- DUAL IBM 2.25GB UltraStar-ES DORS32160UW, 7.8MS, 5400RPM, 512K UltraWide HDs
- Mitsumi FX-12X 12XSpeed ATAPI IDE 1800KB/S CD-ROM
- Sound Blaster AWE 32 PnP Stereo Sound Card
- Diamond Stealth64 Video VRAM 4MB 3000 Series Video Card
- 21" Viewsonic P810 1600x1280NI, 0.25DP, PnP Monitor
- Server Class Super Case Dual Fan Full Tower 250W PS
- MicroSoft Ergonomic Natural Win95 Keyboard
- MicroSoft Ergonomic Serial Mouse w/ Pad
- Pair of 120Watt Stereo Speakers
- Legitimate MS Windows NT V4.0 Workstation CD + Manual + installed + fully configured

P6 is here!

ULTRA WIDE
40MB/S DTR Is Here!!!

Dual 200MHz 256/512k
$9907/$10651
Quad 200MHz 256/512k
$13403/$14891

MicroSoft Windows NT 4.0 Server Upgrade - setup & tested $440

LOOKING FOR YOUR DREAM MACHINE AT THE CHEAPEST PRICE? SHOPPING FOR A PC IN THIS RAZOR-THIN-PROFIT INDUSTRY IS DANGEROUS BECAUSE 70% OF THE DEALERS WON'T LIVE TILL THE FOURTH YEAR IN BUSINESS, MOST SELL 3 OR 4 MACHINES A WEEK WITHOUT KNOWING WHAT THEY ARE SELLING AND 99% DON'T WANT TO SEE ANY MACHINE COMING BACK AFTER YOU WALK OUT OF THE DOOR. AT UMIRACLE, WE BUILD HUNDREDS OF PC'S EVERY WEEK, WE TEST EVERY POSSIBLE COMBINATIONS OF SOFTWARE AND HARDWARE FOR COMPATIBILITY, AND WE STAND BEHIND YOUR PC'S LIFETIME LONG! WHY? BECAUSE WE LOVE YOUR PC AS MUCH AS YOU DO! COME BY AND VISIT ONE OF OUR STORES AND YOU WILL FIND OUT WHY YOU WILL BE THE WINNER!

NT ENHANCEMENTS

NT Guaranteed: All hardware listed below are guaranteed to be NT V3.51 compatible. We will make it right or your money back!

- **Memory**
  - *8/16/32/64MB x32 Non-Parity FastPage/EDO 72Pin Simm* .... $Call
  - *8/16/32/64MB x36 Parity FastPage 72Pin Simm* .... $Call
  - *8/16/32/64MB Synchronous Dynamic RAM (SDRAM) 168Pin Simm* .... $Call
- **RAID Fast Wide SCSI-2 Controller** .... $Call
  (for RAID 5 implementation, an IDE HD should be used as boot drive)
  - *DPT SmartCache IV SCSI Adapter & RAID Series/SmartRAID IV RAID Series*
  - *Mylex DAC960SI SCSI-to-SCSI RAID Controller*
    DAC960PD Hi-Performance PCI RAID Controller
    DAC960PL PCI RAID Controller
  - *AMI Complete MegaRAID Solution including: SCSI RAID level 0,1,3,5,10,30, and 50 PCI Disk Array Controllers/FlexRAID Advanced Management Software/Advanced Enclosure Management/ Boot-Up Configuration/Power Console/General Alert*
- **TapeDrive - HP DAT DDS/DDS-2 Drive (Sold & integrated with system only)**
  - *HP DAT C1534 DDS DAT Tape Drive (2GB on 90m Tape)* $605
  - *HP DAT C1536 DDS DAT Tape Drive w/DCLZ Hardware Compression (4GB on 90m Tape with compression)* $689
  - *HP DAT C1533A DDS-2 DAT Tape Drive w/DCLZ Hardware Compression (8GB on DDS-2 format with compression)* $915
  - *HP DAT C1553A DDS-2 Autoloader w/DCLZ Hardware Compression (48GB on DDS-2 format with compression)* $2056
- **High End Video Card - 3D Rendering/Graphic Animation/OpenGL**
  - *Fujitsu Sapphire 3D Designer: 2MB Disply VRAM/4MB Z-Buffr DRAM* $915
  - *Fujitsu Sapphire 2SX: 4MB Disply VRAM/4MB Z-Buffr DRAM* $1475
  - *Symmetric GLyder 16: 8MB Disply VRAM/8MB Z-Buffr DRAM* $2555
  - *Dynamic Pictures V192 Graphics Acceleration Module 16MB Display VRAM/8MB Z-Buffer DRAM* $3755
  - *Diamond FireGL: 8MB Display VRAM/8MB Z-Buffer DRAM* $1955
- **Server Chassis (T-101)/Disk Array Chassis (T-103) w/Dual Redundancy & Hot Swappable Power Supplies** .... $895/$895
  - *T-101: 12 DriveBays/Upto 2 PowerSupply 2x300W*
    2x4.6" Smart Fans w/ Efficient Air Flow
    Full Size AT Motherboard FormFactor
  - *T-103: 16 DriveBays/Upto 2 PowerSupply 2x300W*
    2x4.6" Smart Fans w/ Efficient Air Flow
    Perfect RAID Disk-Array Sub-Chassis
- **CD-ROM Tower Subsystem Chassis** ....$Call
  - *7 Plextor 8xi TXL-PX83CS w/250W PS*

T-101

T-103

Compatibility Guaranteed

[illegible] not listed above

* *Compatibility with the latest NT 4.0 may not be guaranteed as most manufacturers are still working on the newest drivers for NT 4.0.*

Windows NT*

UMiracle
UMiracle Microsystems

- Free Local Area Delivery for System Purchase
- 1 Year Parts and Life Time System Labor Warranty
- Expertise Technical Support On Duty Daily
- While-You-Wait Immediate Replacement/Repair Service
- 30 Day Compatibility Guarantee on Complete Systems

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MULTIMEDIA PENTIUM NOTEBOOKS

CHEMBOOK 5400PT ■ Pentium CPU ■ DualScan 11.3"/Active Color 10.4"/12.1" ■ 16MB ■ 256K L2 Cache ■ 1.44FD ■ Joystick ■ 6xSpeed CDROM ■ 2MB Video RAM ■ TouchPad ■ 16Bit Stereo Sound ■ 1S/1P ports ■ infraRed port ...

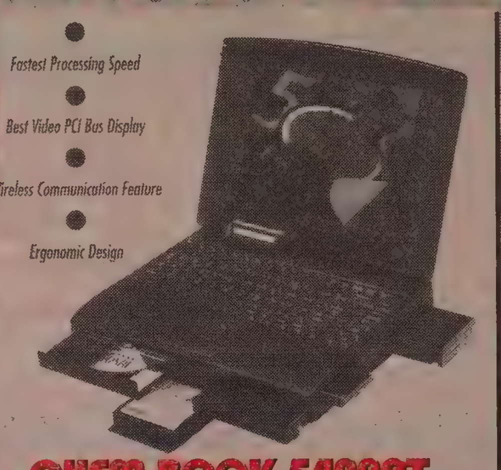
(1.0/1.3/2GB HD)	Dual Scan 11.3"	Active Matrix 10.4"	Active Matrix 12.1"
■ P5-100Mhz	$2100/$2192/$2359	$2340/$2432/$2599	$2730/$2822/$2989
■ P5-133Mhz	$2187/$2278/$2446	$2427/$2518/$2686	$2817/$2908/$3076
■ P5-166Mhz	$2398/$2489/$2657	$2638/$2729/$2897	$3028/$3119/$3287

Fastest Processing Speed

Best Video PCI Bus Display

Wireless Communication Feature

Ergonomic Design



CHEM BOOK 5400PT

Harddrive/Accessories	
810MB 2.5" IDE HD	$297
1.0GB 2.5" IDE HD	$340
1.3GB 2.5" IDE HD	$435
2.0GB 2.5" IDE HD	$605
PCMCIA 28.8 Fax/Data	$165
PCMCIA Ethernet Comb	$120

CHEM 5400PT SPECIFICATIONS

CPU
- Intel Pentium 75/90/100/120/133/150/166 CPU

BIOS
- 256K Flash ROM BIOS

Memory
- 64bit data bus system memory w/2 DIMM memory sockets
- Support 1 bank operation & write-back L1-L2 256K Cache
- Available in 8/16/32MB

Data Storage
- Built-in 1 2.5" harddrive, 1 removeable 3.5" 1.44MB FDD,
- Built-in 5.25" Six Speed Teac CDROM

Display
- 32Bit PCI VGA w/ 2MB VRAM onbrd
- LCD Panel: 640x480x64K or 800x600x256 colors up to SVGA Mode, TFT up to 16 7M True Color
- Support External CRT Resolution up to 1280x1024x256 color
- Support LCD/external CRT simultaneous display
- 11.3" VGA DSTN DualScan color LCD
- 10.4" VGA TFT ActiveMatrix color LCD (Optional 12.3")

Audio System
- Built-in speakers, microphone, 16bit Stereo Sound, FM Music Synthesizer, Line-in/out and external microphone jacks

PCMCIA
- Built-in 2 PCMCIA type-II slots or 1 type-III slot (type IV)

I/O Interfaces
- Built-in Joystick, Speaker, Microphone
- 1 x9 pin serial port(16550 UART), 1x25 pin enhanced LPT port
- 1 x15 pin external monitor port
- 1 x PS/2 keyboard + mouse port Adaptor
- 1 x100 pin docking station interface

Wireless Link
- Built-in IrDA compatible HP infra-red transmitt module

Keyboard
- 86 keyboard w/ support for all keys of an AT-enhanced

Pointing Device
- Built-in PS/2 capacitive touch-sensitive trackpad

Power System
- CPU Stop Clock, Suspend to HDD/DRAM
- Global Standby Mode, Battery Low Spspend
- Battery Resource View, Optional External Battery 58W
- Auto-sensing 110V-240V AC adaptor

Dimension
- 11.8"(W) x 8.9"(D) x 2.1"(H)

Weight
- 7.7Lbs (with battery)

Optional devices:
- Video + MPEG Module
- Mini Docking Station
- Car adaptor

Large 12.1" Screen Size

Built-in Game Joystick

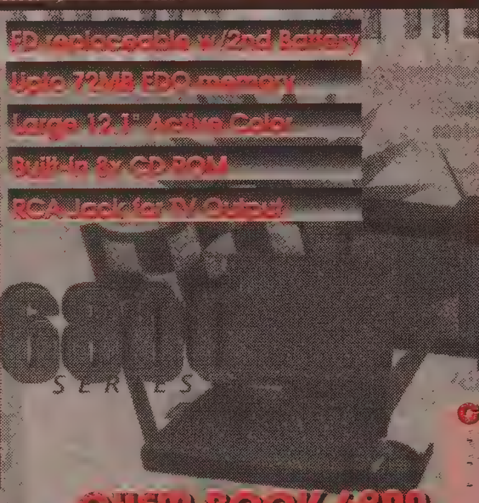
Built-in 6x CD ROM

Built-in Touch Pad

CHEM 5400PT NoteBook Options	
8MB/16MB DIMM	$99/$170
NiMH Internal Battery	$90
External Battery 58W	$175
Auto Adaptor 12V	$75
Battery Charger	$99
AC Adapter	$55
MPEG Card Module	$255
Mini Docking 5400	$185

CHEM 6800 SPECIFICATIONS

- Intel Pentium 100/120/133/166/200MHz
- Pipelined Synchronous 256K Level-2 Cache
- 12.1" Active Matrix SVGA Screen
- 2MB EDO Video RAM on PCI v2.1 Bus
- Expandable EDO Memory up to 72MB
- 800x600x16M True Colors
- 64Bit PCI bus with graphics accelerators
- SystemSoft flash BIOS with Plug & Play
- Build-in 8X CD-ROM
- 16Bit Stereo sound System
- 3 x Type II or 1 x Type II+1 x Type III (Support Zoom Video Port)
- Modem Ring in wake up on Power Mgment
- Built-in 1MB Mask ROM hardware wavetable
- Removeable Floppy & hard drive
- Infra-red IrDA and FIR
- RCA jack for TV-Out
- Windows 95 Keyboard



FD replaceable w/2nd Battery

Upto 72MB EDO memory

Large 12.1" Active Color

Built-in 8x CD-ROM

RCA Jack for TV Output

CHEM BOOK 6800

CHEMBOOK 6800 ■ P5 CPU ■ Active 12.1" ■ 16MB EDO 144PINDIMM ■ 256K L2 P.B. Cache ■ 1.44FD ■ 8X CDROM ■ 2MB EDO Video ■ TouchPad ■ 16Bit Stereo Sound ■ RCA Jack ■ 1S/1P ports ■ InfraRed port ...

Active Matrix 12.1"	(810M/1.0GB/1.3GHD)
■ Pentium-100Mhz	$3075/$3119/$3212
■ Pentium-133Mhz	$3163/$3207/$3300
■ Pentium-166Mhz	$3377/$3421/$3515
■ Pentium-200Mhz	$3577/$3621/$3715

CHEM 6800 NoteBook Options	
8MB 144PinDIMM Mem	$99
16MB 144PinDIMM Mem	$165
32MB 144PinDIMM Mem	$Call
Auto Adaptor 12V	$75
AC Adaptor	$80
NiMH 2nd Internal Battery	$85
Battery Charger	$99

Optional:		
	MS DOS V6.22 + Windows V3.11	Add$90
	MS DOS V6.22 + Windows for WorkGroup V3.11	Add$110
	Windows 95 CD Full OEM Version	Add$90
	Windows NT 4.0 Workstation/Server OEM	Add$159/$599

CHEM BOOK OHP

CHEM OHP SPECIFICATIONS

- Over head Projector presentation capability
- Intel Pentium 100/120/133 MHz
- 10.4" TFT Active Screen
- 8MB RAM onboard, expandable to 72MB
- 1MB Video RAM
- 32Bit PCI Bus Interface
- Build-in 6X CD-ROM
- Windows 95 Keyboard
- 1xType II and 1xType III
- Removable Floppy, hard drive and CD-ROM

Overhead Projector Capability

CHEMBOOK OHP ■ Pentium CPU ■ Active Screen 10.4" ■ 8MB ■ 1.44FD ■ 6xSpeed CDROM ■ 1MB Video RAM ■ SoundBlaster Stereo Sound ■ 1S/1P ports ■ InfraRed port ...

Active Matrix 10.4"	(810MB/1.0GB/1.3GB HD)
■ Pentium-100Mhz	$3138/$3182/$3280
■ Pentium-120Mhz	$3173/$3217/$3315
■ Pentium-133Mhz	$3213/$3257/$3355

** Call for optional Overhead Projection Kit

CHEM 9750 NoteBook Options	
16MB Memory	$198
32MB Memory	$330
64MB Memory	$Call
Auto Adaptor 12V	$70
AC Adaptor	$79
2nd NiMH Int. Battery	$105
Battery Charger	$95
Li-Ion Battery	$235

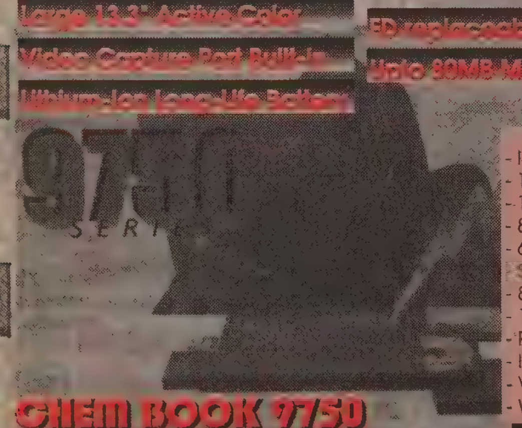
Large 13.3" Active Color

Video Capture Port Built-In

Lithium-Ion Long-Life Battery

FD replaceable w/2nd Battery

Upto 80MB Main Memory



CHEM 9750 SPECIFICATIONS

- Intel Pentium 120/133/150/166/200MHz
- 13.3" TFT XGA/12.1" TFT SVGA or Dual Scan
- 16MB Memory onbrd, expand upto 80MB
- 800x600x16M True Colors, 2MB Video RAM
- 64bit PCI bus graphics accelerator
- SystemSoft Flash BIOS with PnP
- 8xCD RO, exchange w/FDD or Battery
- 16Bit Stereo Sound System
- Pipelined Synchronous 256K Level-2 Cache
- Infra-red IrDA and FIR
- Video Capture port
- Windows 95 Keyboard

CHEM BOOK 9750

CHEMBOOK 9750 ■ P5 CPU upto 200MHz ■ DualScan/Active Screen 12.1" ■ 16MB onbrd ■ 256K PB L2 Cache ■ 1.44FD ■ 6xSpeed CDROM ■ 2MB EDO Video RAM ■ NiMH Battery ■ 16Bit Stereo Sound ■ Video Calpure Port ■ 1S/1P ports ■ InfraRed port ...

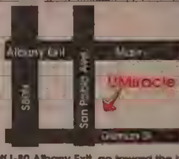
(810MB/1.0GB/1.3GB HD)	Dual Scan 12.1"	Active Matrix 12.1"
■ P5-100Mhz	$2491/$2536/$2629	$3041/$3086/$3179
■ P5-133Mhz	$2580/$2623/$2717	$3130/$3173/$3267
■ P5-166Mhz	$2794/$2838/$2932	$3344/$3388/$3482
■ P5-200Mhz	$2994/$3038/$3132	$3544/$3588/$3682

** Call for 13.3" Active Matrix availability and prices

UMiracle
UMiracle Microsystems
44063 Fremont Blvd. Fremont CA 94538
Phone:510-226-3666 Fax:510-226-6756
1035 San Pablo Ave#1. Albany CA 94706
Phone:510-526-2626 Fax:510-526-0273
1501#E El Camino Rl. Belmont CA 94002
Phone:415-592-3333 Fax:415-592-2919

DISCOVER
ATM
VISA

Albany Store
Ph:510-526-2626
1035 San Pablo Ave #1
Albany CA 94706



Off I-80 Albany Exit, go toward the hill and turn right on San Pablo Avenue. We are facing U.C. Village. Or off I-80 Gilman St, go toward the hill and make a left turn on San Pablo Ave.

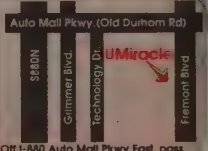
Belmont Store
Ph:415-592-3333
1501 El Camino Real #E
Belmont CA 94002
Fax 415 592 2919

Sunday 10:30AM-6:00PM

N101S
Holly
Ralston
Harbor
Old County Rd
UMiracle
El Camino Real

From north or south, Off I-101 Ralston Ave, go towards west, left on El Camino Real and make a U-turn ASAP. We are on your right.

Fremont Main
Ph:510-226-3666
44063 Fremont Blvd
Fremont CA 94538
Fax 510 226 6756



Off I-880 Auto Mall Pkwy East, pass Technology Drive and make a right on Fremont Blvd, (or off 680 Durham, go west, pass Osgood Rd, then make a left on Fremont Blvd.) first driveway on your right.

REAL STUFF, REAL QUALITY, REAL PRICES

Item	Price
36 ISA PCI 256K w/ E-IDE, FD, onbrd HiSpd I/O, 3 PCI+ 4 ISA slots, upto 256MB, suppt 72Pin SIMM, AMI BIOS, PnP, 3.3V CPU Support	$90
DI Pentium® 75-200Mhz/Cyrix® 686-130+/150+/166+based motherboard - PCI Pipelined Sync 256K cache w/430VX chpst, Socket 7 & VRM, 4 PCI+3 ISA slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-mastering PCI-IDE interfaces, 2-16550 UARTs, ECP/EPP,support 4 IDE HDs,FD, Flash Award ROM w/NCR SCSI suppt, PnP	$120
SUS P/I-P55TVP4 Pentium® processor-based board - Intel 430VX PCISet, Concurrent PCI bus, Pipelined Burst 256K (upto 512K) cache onbrd, 75-200Mhz CPU speed, 4 PCI+3 ISA+1 ASUS MediaBus slots, 32bit-FP/EDO + 36bit-Parity/ECC 72Pin+168Pin SIMM support upto 128MB, built-in Bus-Master PCI-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP,support 4 IDE HDs, PnP,Flash Award BIOS w/NCR SCSI Suppt, Dallas Battery, PnP,COAST Socket, Baby AT form factor	$155
SUS P/I-XP55TVP4 same as above except in ATX form factor w/PS/2 mouse+Keyboard connectors	$160
tel Marl Advanced/ML Pentium® processor-based ATX Board - 256KB pipelined burst cache onbrd, Intel 430HX PCISet, built-in PCI-IDE interfaces, FD, 2 16550 UARTs, ECP/EPP,PS/2 mouse+Keybrd connectors, support 4 IDE HDs, Socket 7, 4 PCI+3 ISA slots, 32bit-FP/EDO + 36bit-Parity/ECC 72Pin SIMM support upto 128MB, 75Mhz and up CPU speed support, Concurrent PCI 2.1 compliant, PnP,ATX form factor	$145
tel Made Tucson TC430HX Pentium® processor-based Board - Intel 430HX PCISet, Pipelined Burst 256K Cache onbrd, 75Mhz & up CPU support, 4 PCI+3 ISA slots, FP or EDO 72Pin SIMM support upto 128MB, Socket 7, built-in PCI-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP,4 IDE HDs support, PnP,Flash AMI ROM, APM Power Saving, Built-in Yamaha OPL3 FM Synthesizer stereo sound w/line-in/out, Joystick, WaveTable connector, ATX type	$188
tel Venus Performance/VS Pentium® Pro processor based motherboard - 256K/512K cache on CPU, Intel 440FX chipset, 150/180/200Mhz and future CPU support, 3 ISA+4 PCI slots, onbrd PCI Bus-Master IDE interfaces, HiSpd I/O, FD, PS/2 mouse + kybrd connectors, ZIF Socket 8, Flash AMI PnP BIOS, FP/ECC 72Pin SIMM support upto 512MB, ATX type	$280
tel Made Providence PR440FX Dual Pentium® Pro processor-based board - Intel 440FX PCISet, support Dual Pentium Pro 200Mhz CPUs, 64Bit-EDO/72Bit-ECC 168Pin DIMM upto 512MB, Integrated LAN Controller Intel 82557 (=EtherExpress® Pro/100B), Integrated Ultra/Wide SCSI Adaptec® 7880 w/ onbrd+External mini-68Pin 16bit Wide Connectors, Integrated Audio - Crystal+Yamaha OPL3 FM Synthesizer 16bit SteroSound, 4 PCI+1 ISA slots, onbrd PCI Bus Master IDE interfaces, HiSpd I/O, FD, Dual ZIF Socket 8, Flash AMI PnP BIOS	$745
uick P55TV PCI Pentium® processor-based board w/ Built-In Adaptec® PCI SCSI chipset 7860 (AHA-2940U Ultra SCSI) support MMX, Cyrix 686 CPU, 50Pin Fast SCSI-2 & Ultra SCSI (20MB/s Burst), Pipelined Burst 512K Cache onbrd, Intel 430VX chipset, ZIP Socket 7, 75-200Mhz, 3 PCI+5 ISA slots, FP or EDO 72Pin SIMM & 168PIN DIMM (Synchronous DRAM) support upto 512MB, built-in PCI-IDE nterfaces, FD, 2-16550 UARTs, ECP/EPP,support 4 IDE HDs, PnP,50pin SCSI + FD/HD/IO cables, Musical alarm CPU fan, PS/2 mouse port & EZ-SCSI V4.0L + complete Adaptec® software driver & manual included.	$250
uick P55TU PCI Pentium® processor-based board w/ Built-In Adaptec® PCI SCSI chipset 7880 (AHA-2940UW Ultra Wide SCSI) support MMX, 50Pin Fast SCSI-2 & 68Pin Ultra Wide SCSI (40MB/s Burst) with optional RAID support, Pipelined Burst 512K Cache onbrd, Intel 430HX chipset, ZIP Socket 7, 75-200Mhz, 3 PCI+5 ISA slots, FP or EDO 72Pin SIMM & support upto 256MB, built-in PCI-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP,support 4 IDE HDs, PnP,50pin SCSI + 68pin Wide SCSI + FD/HD/IO cables, Musical alarm CPU fan, PS/2 mouse port & EZ-SCSI V4.0L + complete Adaptec® software driver & manual ncluded	$350
AN TomCat III S1563D Dual Pentium® Processor based ISA-PCI motherboard - ntel 430HX Chipset, support Dual Pentium 75-200Mhz Pentium/Cyrix CPUs, 5 SA+4 PCI slots, onbrd PCI Bus Master IDE interfaces, HiSpd I/O, FD, Dual ZIF Socket, Flash Award PnP BIOS, support FP/ECC 72Pin SIMM upto 512MB, Pipelined Burst 512K Cache built-in	$250
AN Titan Pro AT S1662 Dual Pentium® Pro based 150-200MHz ISA-PCI motherboard - Dual CPU cooling fans, Intel Natoma 440FX Chipset, support Dual 150/166/180/200Mhz CPUs, 3 ISA+5 PCI slots, onbrd PCI Bus Master IDE nterfaces, HiSpd I/O, FD, Dual ZIF Socket 8, 2 VRM modules for future CPU (low voltage) support, Flash Award PnP BIOS, support FP/ECC 72Pin SIMM 4 way nterleaved upto1GB	$485
AN Titan Pro ATX S1668 Dual Pentium Pro 150-200MHz ISA-PCI motherbrd same as Titan Pro AT S1662 above except in ATX form factor	$510
MI (American Megatrends, Inc) Goliath Quad Pentium® Pro Processor EISA/PCI motherboard - U.S. designed and made 180/200MHz (or higher) 1/2/4 processors supported, easy upgrade thru CPU based board approach, 1GB memory max onboard with 72 pin slots, 4 way Interleave structure for max performance ECC supported, 168Pin DIMM supported, Intel 82450GX chipset, AMI Green Flash BIOS, 6 PCI + 4 EISA slots, integrated I/O w/ 1P/2S/FD/2 PCI IDEs/PS2 mouse, AT form factor	
Above w/ two 200MHz Pentium Pro 256K CPUs	$5105
Above w/ four 200MHz Pentium Pro 256K CPUs & 2nd CPU baseboard	[illegible]

CPU & Memory (Prices Subject to Change without notice)

Item	Price
el Pentium® Pro processor 256K/512K 150/180/200Mhz	[illegible]
ntium® P5-100/120/133/150/166/200MHz CPU	$Call
MD® 486-100DX4/120DX4/5x86-133DX4	$Call
rix® 5x86-100/120DX P5 OverDrive for 486 motherbrd	$Call
rix® 6x86-120+/150+/166+ Pentium® class CPU	$Call
6/512K Synchronous Pipelined Cache COAST module	[illegible]
1MB/4MB 30Pin SIMM RAM	$Call
72Pin SIMM - 32/36Bit-FP/EDO/Parity	$Call
16MB/32MB 168Pin SDRAM DIMM (Synchronous DRAM)	$175/[illegible]
SIMM Converter - 4 pieces 30Pin to 1 piece 72Pin	$Call

UMiracle Microsystems

I/O Card/Controller Card:

Item	Price
VLB Enhanced IDE/FD 2S/1P/1G Controller Supporting 4 Mode 3 & 4 E-IDE devices	$25
Adaptec 1522 SCSI-2 Controller	$75
Adaptec 1542CP PnP Bus-mastering SCSI-2 Controller	$170
Adaptec 2940U Fast PCI Ultra SCSI-2 Controller	$190
Adaptec 2940UW PCI Ultra WIDE SCSI-2, 40MB/s, 15 devices support	$210
Western Digital PCI-SCSI Adapter - 7193RTL Fast SCSI, 10MB/s, upto 7 devices, PnP,CorelSCSI! Drivers	$89
External SCSI-2 50Pin Mini-68Pin Adapter for any onboard internal 50pin ribbon cable SCSI interface	$17
External Wide SCSI Mini-68Pin Adapter with 3-68pin-connector internal ribbon cable for any onboard internal 68pin Wide SCSI interface	$45
Fast Wide SCSI-2 internal Ribbon Cable, 68Pin, 2 / 3 connectors	$20/30
External SCSI Cables Centronic/Mini 50/68Pin	$Call
External SCSI Terminator SCSI-2/Mini 50/Mini 68Pin	$Call
Universal Serial Bus Connector (Call for availability/compatibility)	$Call

Network Card

Item	Price
Ethernet NE2000 ISA PnP/Softset 16Bit Combo	$25
Intel EtherExpress Pro 10/100 PCI ENET 32Bit 10-BT (PILA8465B)	$99
SMC Etherpower ENET PCI 10-BT (8432T)	$110
SMC Etherpower ENET PCI 10-BT + Coax Combo (8432BT)	$140
SMC Etherpower ENET PCI 10/100-BT+DB-9 (9332DST)	[illegible]
3COM Etherlink III 3C509B Combo	[illegible]
3COM Etherlink XL 3C900 Parallel-Tasking PCI Combo	[illegible]
3COM Fast Etherlink XL 3C905-TX Parallel-Tasking 100BT PCI	[illegible]

Video Card

Item	Price
Trident 9680 Windows Accelerator PCI 1MB/2MB with MPEG and AVI Motion Video built-in	$42/57
Diamond Stealth 3D 2000XL PCI 2MB/4MB EDO-DRAM	$105/$135
Diamond Stealth 3D 3000XL PCI 2MB/4MB VRAM	$195/$Call
Diamond Stealth64 2000 Series PCI 64Bit 2MB EDO DRAM	$75
Motion Video Player 1100 Series MPEG Module for Stealth 2000 Video	$115
Diamond DTV 1100 TV Tuner for Stealth 2000 Video	$105
Diamond Stealth64 Video VRAM 3000 Series PCI 64Bit Graphic Engine S3-968 2MB/4MB VRAM Version	$154/238
2MB VRAM upgrade board for Stealth 3000	$85
Motion Video Player 2000 Series MPEG Module for Stealth 3000 0MB	$205
Motion Video Player 2000 Series MPEG Module for Stealth 3000 2MB VRAM	$305
ATI Graphic Pro Turbo PCI 2/4MB VRAM	$178/268
Matrox MGA Millennium 2MB/4MB WRAM PCI	$205/$285
Upgrade module for Millennium 2MB/4MB/6MB	$95/$175/$245
Matrox MGA Mystique 2MB/4MB SGRAM	$165/225
Number 9 Imagine 128 Series II 4MB VRAM PCI	$595

Monitor

Item	Price
14" ShamRock 1Kx768NIx0.28DP Digital Control Pwr-Saving Monitor	$210
15" ShamRock 1280x1KNIx0.28DP Digital Control Pwr-Saving Monitor	$290
17" ShamRock 1280x1KNIx0.28DP Digital Control Pwr-Saving Monitor	$525
MAG Technitron Series Trinitron Tube, Digital Control, 0.25DP, 1280x1KNI, 3yr Manu. Warranty 15" DX15T/DX700T	$355/$695
MAG DX95 Series DX1595/DX1795	$355/$595
IIYAMA VisionMaster-17 MF-8617E 17" .26DP, Microprocessor Contrl, PnP,DPMS, MPRII, Full On-screen program, 1600x1200@69Hz	$668
IIYAMA VisionMaster-Pro 17 MT-9017E 17" .25DP, Microprocessor Contrl, PnP,DPMS, MPRII, Full On-screen program, 1600x1200@72Hz, Trinitron Tube	$739
IIYAMA VisionMaster MF-8221E 21" .22x.16DP, Microprocessor Contrl, PnP,DPMS, MPRII, Full On-screen program, 1600x1200@76Hz	$1430
IIYAMA VisionMaster MT-9021E 21" .30x.00DP, Microprocessor Contrl, PnP,DPMS, MPRII, Full On-screen program, 1600x1200@76Hz, Trinitron Tube	$1525
Sony 15" 15SX/15" 15SF II/17" 17SF II/20" 20SFII	$385/$445/$745/$1580
Sony 20" 17" 17SE2T/20SE2T	$945/$1809
Eizo(Nanao) T-series:T2-17/T2-17TS/T2-20	$950/$890/$1729
Eizo(Nanao) F-series:F2-17/ F2-17EX/ F2-21/ FX2-21	$805/$905/$1785/$2850
Eizo 17" FlexScan TX-C7S	$1025
Viewsonic 14ES/15ES/15G/1V45GS/17GS/15GA/17GA/17PS/PT770/GT800/PT810/P815/17EA/29GA/etc	$Call
Mitsubishi DiamondScan 17HX/20H	$859/$1625
Mitsubishi DiamondPro 17TX/21TX	$1045/$1755
Hitachi, NEC, ADI, Nokia, Monitors	$Call

Modem

Item	Price
Modem Zoltrix 14.4K/33.6K Fax+Data w/ VoiceMail Int.16550 UART	$50/$85
Cardinal 33.6K Fax Internal (MVP288I)	$125
Cardinal 33.6K Voicemail Fax Internal (MVP288IV)	$145
USR Sportster 33.6K Faxmodem Internal/External	[illegible]
USR Sportster 33.6K Voice Faxmodem w/Personal Voice Mail External	[illegible]

Floppy Drive/Tape Backup

Item	Price
Mitsumi/Sony/NEC 1.44M 3.5"	[illegible]
Teac 1.2M 5.25"/1.44M 3.5"/Dual 1.2M+1.44M Combo	[illegible]
Colorado 800MB T-1000 off floppy Travan w/Win95 Sftwre, no tape	[illegible]
Colorado 3.2GB T-3000 off floppy Travan w/Win95 Sftwre, no tape	[illegible]
Colorado T4000S 4-8GB, 62MB/min, SCSI-2, Travan TR-4, internal, no tape	[illegible]
Tape Cartridges for Tape Backup	[illegible]
Iomega ZIP Drive 100MB w/disk SCSI-Internal/External	[illegible]
Iomega ZIP Drive Disks single/three/ten pack	$18/$45/$130
Iomega Jaz Drive 1GB w/disk SCSI-Internal/External	$360/$475
Iomega Ditto Easy TapeBackup 800 Insider 800MB Travan QIC	$110
Iomega Ditto Easy TapeBackup 800 Parallel External 800MB Travan QIC	$149
Iomega Ditto TapeBackup 2GB Insider Travan TR-1,2,3	$155
Iomega Ditto TapeBackup 2GB Parallel External TR-1,2,3	$205
Iomega Ditto TapeBackup 3200 Insider 3.2GB Travan QIC	$206
Iomega Ditto TapeBackup 3200 Parallel External 3.2GB Travan QIC	$275
Iomega Ditto Tape Cartridge 800-TR-1/3200-TR-3	$32/$35/$45

Item	Price
Mitsumi 104 Enhanced Win95 Keyboard	[illegible]
KeyTronic 104 Enhanced Win95 Key U.S. Made	[illegible]
Focus 2001 104 Win95 Key Enhanced Click w/Cover	[illegible]
Focus 6002 104 Win95 Key Enhanced w/ wristrest	[illegible]
Focus 7200 104 Win95 Key Enhanced w/ wristrest + Trackball	[illegible]
Focus 8000 111 Key w/Calculator	[illegible]
Natural Keyboard SK-6000 Win95 Key Enhanced	[illegible]
Natural Keyboard SK-6000 Win95 Key Enhanced w/Touch Pad	[illegible]
MicroSoft Natural Keyboard Win95 Key	[illegible]
Mitsumi MS compatible 2-Button Mouse Serial/PS2	[illegible]
MicroSoft Ergonomic Serial/PS 2 type	[illegible]
Logitech Mouseman Serial/PS 2 type/Cordless	$35/$45/$85
Logitech Trackman Vista/Marble	$49/$85
MS DOS 6.22/Windows V3.11/WFWG V3.11(w/System Purchase)	$45/45/65
MS Windows 95 Full CD-ROM OEM version	$90
MS Office Pro for Windows 95 CD version	$215
MS Windows NT V4.0 Workstation/Server w/ 5 user license OEM	$159/$599
Premium Case w/230W Mini/Desktop/Med	$45/55/70
Premium Case w/250W Full Size Tower	$95
Server Class Super Case w/250W PS w/ detachable front panel, Dual side open door, solid construction, slide-in Drive Bay, Dual fans, lots of bays, Medium/Full Tower	$135/$15[illegible]
ATX Style Medium/Full Tower Case w/ ATX type 235W P/S	[illegible]
Deluxe External SCSI Case w/Terminator+SCSI Cable+P/S+Fan 3.5" Half Height/5.25" Half Height	$60/$90
Deluxe External SCSI Case w/68Pin Wide/Ultra Wide SCSI Connector + P/S + Fan 3.5" Half Height with 68Pin External Cable and Terminator	$160
Power Supply PS-2 Type 230W/250W/300W	[illegible]
486/P5/P6 CPU Cooling Fan w/heat sink	[illegible]
Chassis Second Cooling Fan 3" or 3.5"	[illegible]
Printer Cable 6"/10"/15"/25"	$5/7/10/1[illegible]
PS/2 mouse port connector for motherboard PS/2 mouse port	$15

CD-ROM Drive

Item	Price
Toshiba XM-5602 8X Speed Internal ATAPI IDE CD ROM	[illegible]
Teac 58E 8X Speed Internal ATAPI IDE CD-ROM	[illegible]
Mitsumi FX810 8X Speed Internal ATAPI IDE CD-ROM	$110
Mitsumi FX12X 12X Speed Internal ATAPI IDE CD-ROM	[illegible]
Teac 56S 6Xi SixSpeed SCSI 900KB/Sec, Internal	$153
NEC CDR-1410 8Xi EightSpeed SCSI 1200KB/Sec, Internal	$210
Plextor 6-Plex 6XSpeed PX63CS internal/65CS external, 900Kb/sec, Fast SCSI, 115ms seek, 256K Buffer, SCAM, w/Caddy, 2-yr warranty	$249/$339
Plextor 8-Plex 8XSpeed PX83CS internal/85CS external, 1200Kb/sec, Fast SCSI, 95ms seek, 256K Buffer, SCAM, w/Caddy, 2-yr warranty	$288/378
Philips Recordable SCSI-2 CD-ROM Writer 1MB Cache, 2X record and up to 4X read, 5.25" 1/2 height, Bare CD Recorder	[illegible]
Yamaha SCSI-2 CD-ROM Writer CDR-102pc 512KB Cache, 2X record & up to 4X read, 5.25" 1/2 height, Retail ver. w/ Controller + Software	$795
Yamaha SCSI-2 CD-ROM Writer CDR-100pc 512KB Cache, up to 4X record & read, 5.25" 1/2 height, Retail version w/ Controller + Software	$1095

Sound Card Speaker MultiMedia Package

Item	Price
Yamaha, Altec, Lansing Speakers	$Call
60W/80W/120W Hi-Fi Amplified Stereo Speakers	[illegible]
Sound Blaster Compatible 16Bit stereo sound card w/PnP,IDE port	$55
Sound Blaster 16 Stereo PnP w/IDE Interface OEM	[illegible]
Sound Blaster 32 PnP w/IDE interface Retail	[illegible]
Sound Blaster AWE32 PnP w/ IDE interface Retail	[illegible]
MS CD MS Homes I titles - Encarta 96, Works/Money, Bob, Scenes Personal Collection, 55+ Title CD Samplers	$75
MS CD MS Homes II titles - Encarta 96, Works/Money, Golf 2.0, Creative Writer, Magic School Bus, 55+ Title CD Samplers	$95
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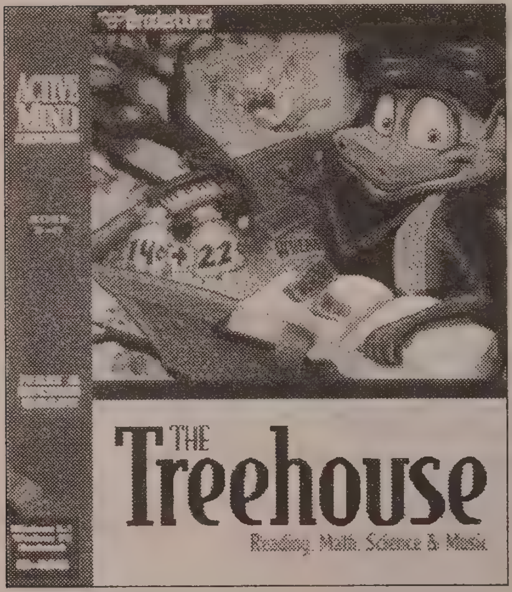
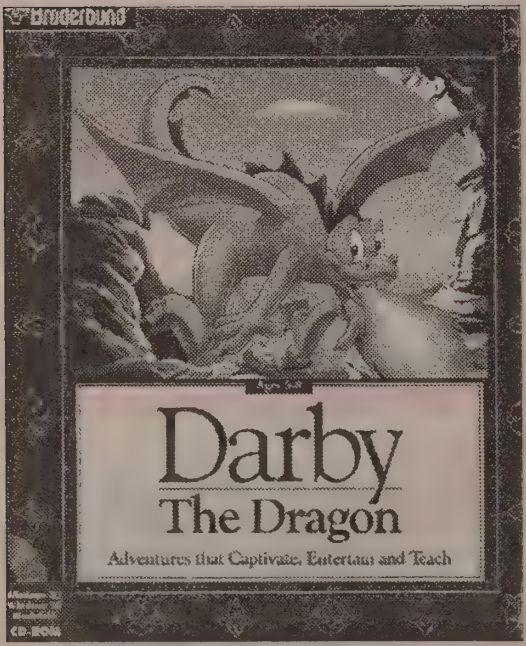


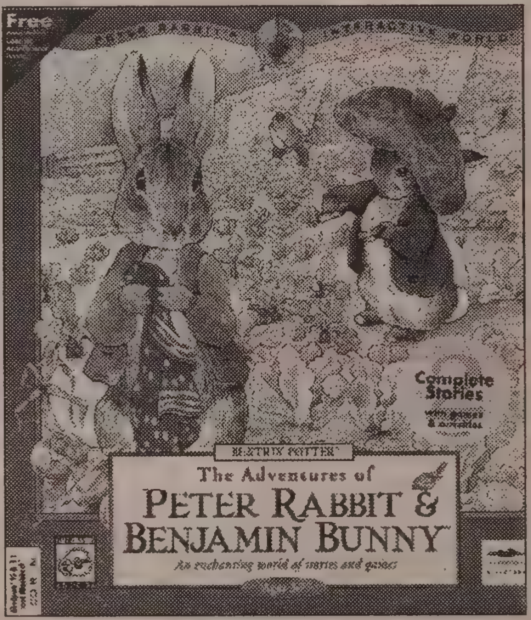
order. ($40, estimated street price. Hybrid Macintosh/Windows CD-ROM) Brøderbund Software, Inc., 500 Redwood Blvd., P.O. Box 6121, Novato, CA 94948. (415)382-4435. URL: *http://www.broderbund.com* .

Darby the Dragon



Darby the Dragon is a friendly dragon prince who lives in the enchanted kingdom of Dragondale with his father, mother, and big sister, Sparkle. Upon discovering a magic wand, he mistakenly casts a spell on Sparkle, which shrinks her to a small size. Children, ages 5–8, must find the Wizard to learn the reversal potion and then set off on a quest to find the magical ingredients. As kids explore the kingdom in search of magical ingredients and secret gold coins, they are challenged with thought-provoking puzzles and problem-solving activities. The program also teaches valuable life lessons about cooperation and helping others and features original music, sung by a variety of characters. For Macintosh, Windows 3.1, and Windows 95. ($30) Brøderbund Software, Inc., 500 Redwood Blvd., P.O. Box 6121, Novato, CA 94948. (415)382-4435. URL: *http://www.broderbund.com* .

The Adventures of Peter Rabbit & Benjamin Bunny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The Adventures of Peter Rabbit & Benjamin Bunny is an interactive storyland that combines Beatrix Potter's classic tales with engaging activities, hand-drawn animation, hand-painted watercolor artwork, sound effects and music in a multimedia adventure that stimulates early learning skills. Designed for multiple age and skill levels, it includes two full-length stories with more than ninety pages of content, games, nursery rhymes, and hundreds of engaging animations. Children can read the stories page-by-page, select "read-to-me" mode, or explore and play in Peter Rabbit's 360-degree interactive world. CD-ROM for Windows 3.1, Windows 95, and Macintosh. ($20) Mindscape, Inc., 88 Rowland Way, Novato, CA 94945. (415)897-9900. URL: *http://www.mindscape.com* .

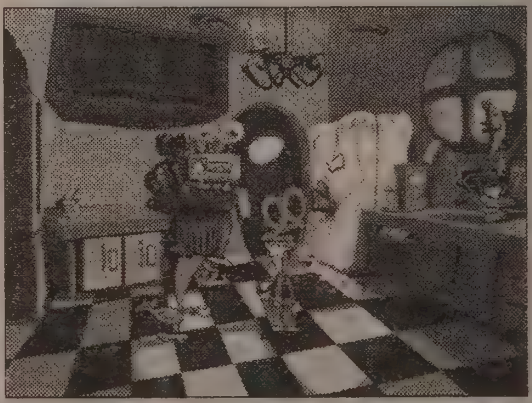
Mortimer and the Riddles of the Medallion

Mortimer and the Riddles of the Medallion is the modern-day fairy tale of Sid and Sally and their adventures as they try to undo the evil doings of Lodius, who has used a magical medallion to steal all the power from the animals of the world and turn them into statues. The game is LucasArts Entertainment Company's first game created especially for the early entertainment market. Targeted to the 5–11 age group and appealing to both boys and girls, Mortimer combines action and discovery with a delightful story, marvelous characters and dazzling locales. The game is available on CD-ROM for both the Macintosh and Windows 95. ($40) LucasArts Entertainment Co., P.O. Box 10307, San Rafael, CA 94912. (415)472-3400.

Pyramid: Challenge of the Pharaoh's Dream

Pyramid: Challenge of the Pharaoh's Dream is an interactive CD-ROM that catapults children back in time to discover the secrets of ancient Egypt. The adventure, based on real world history, provides an accurate depiction of this ancient society and allows kids to explore the technology, culture, and secrets of Old Kingdom Egypt. "Virtual Flight" technology, photo-realistic sets, and a host of quirky animated characters are used to let children ages 10 and up build a gigantic Egyptian pyramid using centuries-old techniques. CD-ROM for Macintosh and Windows 95. ($50) McGraw-Hill Home Interactive, 255 Shoreline Dr., Ste. 650, Redwood City, CA 94065. (415)802-9010.

The Fennels Figure Math



The Fennels Figure Math is a narrative-based CD-ROM math title featuring a humorous story line, outrageous characters, an oddly perfect house, and custom Fennel Figuring Machines. From the outset of the story, children are in

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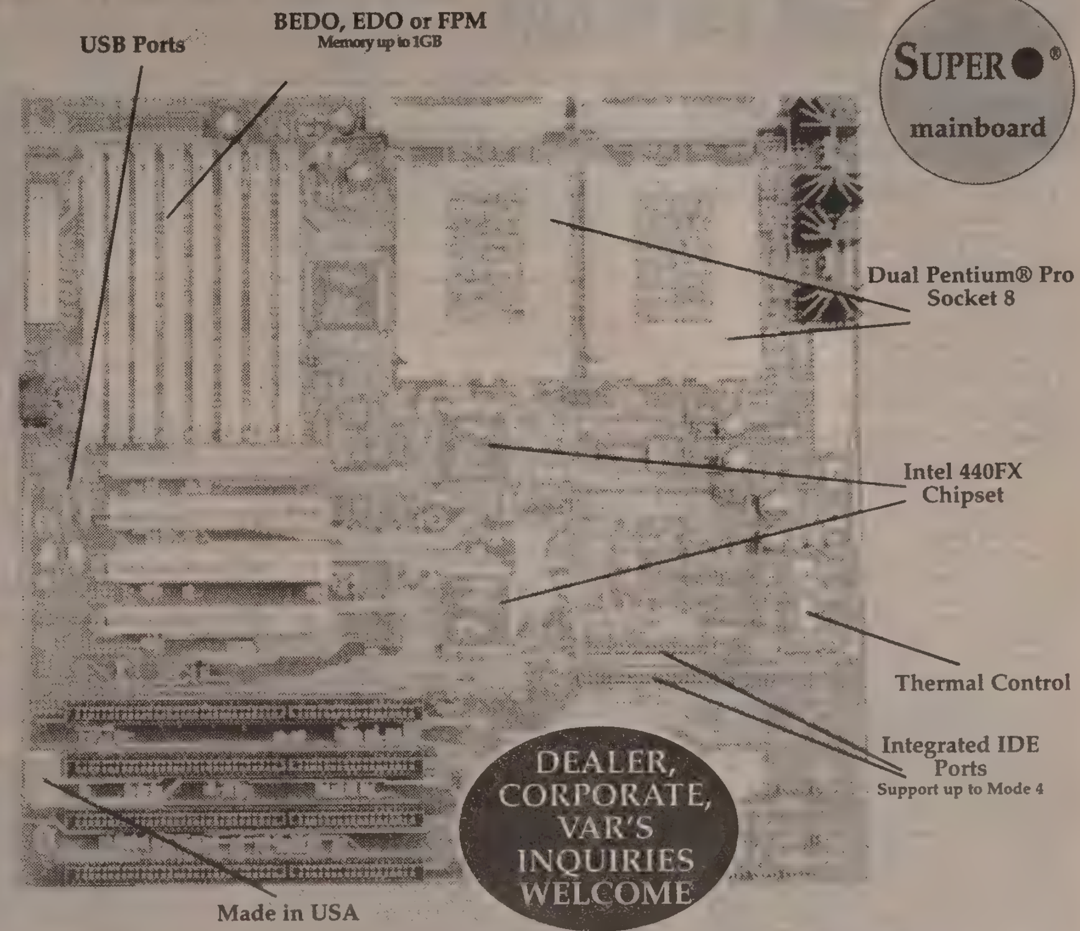
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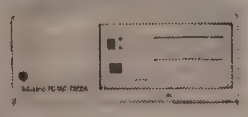

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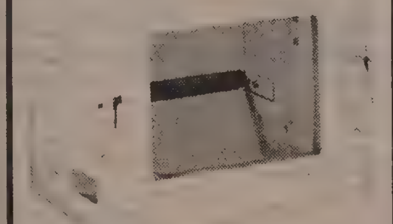

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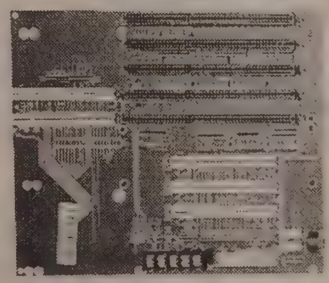

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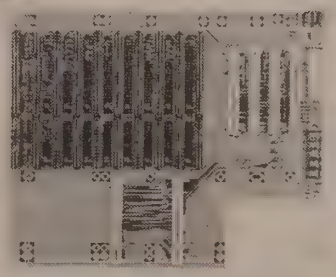

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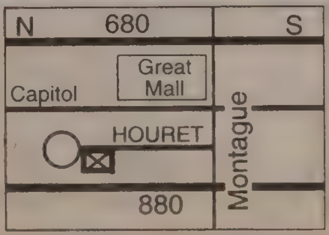
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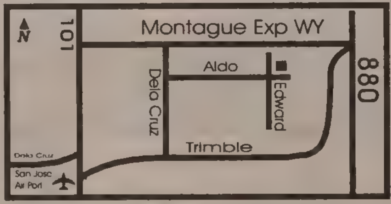

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- Free New Windows '95 W/manual & Cd
- Free America on Line Start up Kit
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- 4.2GB FAST-WIDE SCSI 8.5MS Hard Drive
- Adaptec 2940UW ULTRA WIDE SCS0I Controller
- SPIDER Turantula Lite PCI VGA W/1MB Video Card
- HP C1534 2-4GB SCSI TAPEDRIVE INT.
- 8X-SPEED SCSI CD-ROM
- 2-16550 Serials Port & 1 Parallel Ports
- SONY 15" 155X1 1280X1024 .25DP MONITOR
- Mitsumi WIN '95 104 Keys Enhanced Keyboard
- Full Tower ATX Case w/ Power Supply
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- 3Com 3C905 PCI 100 BT Ethernet Card
- Logitech Mouseman Serial Mouse

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Endeavor Pentium P5- 75——> 166MHz + Sound Card	$198
Atlantis Pentium P5- 75——> 166MHz + Video +Sound	$238
Marl P5- 75———> 200MHz (ATX Form Factor)	$158
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P6SNE Single Pentium Pro series (Natoma Chipset)	$318
P6DNE Dual Pentium Pro series (Natoma Chipset)	$428
P6DNF Dual Pentium Pro series (Natoma Chipset)	$538
P6DOF Dual Pentium Pro series (orion GX Chipset)	$578

INFINITY-2000™

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1.44MB (Teac) White	$28
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Pentium 150 / 166 / 200MHz	$288 / 368 / 538
Pentium 100 / 120 / 133MHz	$148 / 168 / 228

Cyrix®

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Edo 8 / 16MB 60NS	$38 / 78
Edo 32 / 64MB 60NS	$168 / Call

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2MB WRAM for MGA Millenium upgrade	$Call
Matrox MYSTIQUE PCI 2MB	$148

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Stealth 64 Video 2001 Series PCI w/2MB (S3-765)	$78
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21" NEC XP21	$1988

MAG

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17" DX17-T	$668
17" MXP-17F	$718
21" MX21F	$1428
15" PRINCETON E050	$338
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Western Digital 1.6 / 2.5 / 3.1GB E.IDE 11MS	$228 / 288 / 368
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Panasonic 4X IDE 5 CDs Changer Int	$88

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TeleVideo-TeleWave Q32 WAVETABLE Synthesizer	$58
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Sound Blaster 32 P&P (OEM)	$118
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Sound Blaster Value IDE AWE32 P&P (Retail Box)	$228
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* After $50 Manufacture Mail-In Rebate Expires 01/31/97

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HP Sure Store C4324A, read 4X writer 2X	$808
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PANASONIC Power Drive (4X read, 2X write) Int/Ext	$488/618
PHILIPS CDD2000/10 2x write 4x read, Int. Dr only	$668
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- 1.44MB Floppy Drive
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- 104 Enhanced Keyboard

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- Intel Triton Chipset w/256K Pipeline Cache
- 1.44MB Floppy Drive
- Enhanced IDE w/16550 I/O
- Tower or Desktop Case w/Power Supply
- 104 Enhanced Keyboard

586 Pentium®

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120MHz	$390

- Intel Pentium® CPU
- Heat Sink & CPU Fan
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- Intel Triton Chipset w/256K Pipeline Cache
- 1.44MB Floppy Drive
- Enhanced IDE w/16550 I/O
- Tower or Desktop Case w/Power Supply
- 104 Enhanced Keyboard

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❖ **Intel Atlantis MB w/ Sound Card, ATI 1MB Video**	**Add $170**

Optional For Systems

VESA SVGA Card 1MB/2MB	$40/55
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28,800 Fax/Modem Ext V.34	120
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US Robotics 33,600 Win Modem	110

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- Intel Triton Chipset w/256K Pipeline Cache
- 1.44MB Floppy Drive
- Enhanced IDE w/16550 I/O
- Tower or Desktop Case w/Power Supply
- 104 Enhanced Keyboard

486 PCI/VLB

133MHz	**$230**

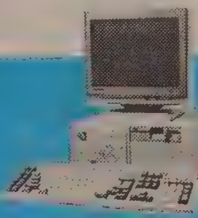
- PCI/VESA Local Bus Motherboard
- 0MB Expandable to 32MB on Board
- 8K Internal Cache
- 128K External Cache Exp. to 256K
- Shadow RAM
- 1.44MB Floppy Drive
- 1:1 Interleave HD/FD Controller
- Tower or Desktop Case w/Power Supply
- 104 Enhanced Keyboard

486 PCI/VLB

100MHz	**$225**
66MHz	**$220**

- PCI/VESA Local Bus Motherboard
- 0MB Expandable to 32MB on Board
- 8K Internal Cache
- 128K External Cache Exp. to 256K
- Shadow RAM
- 1.44MB Floppy Drive
- 1:1 Interleave HD/FD Controller
- Tower or Desktop Case w/Power Supply
- 104 Enhanced Keyboard

540MB	$135
850MB	$145
1.2GB	$195
1.6GB	$220
2.0GB	$265



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Adaptec 2940 PCI SCSI	190
Bus Logic KT-946C PCI SCSI	175

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2.0GB	270
1.0 GB SCSI-II	275
2.0GB SCSI-II	395

MOTHERBOARDS

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486DX4-100MHz w/CPU, CPU fan	125
486DX4-133MHz w/CPU, CPU Fan	130
586-166MHz w/Intel CPU & Fan	480
586-150MHz w/Intel CPU & Fan	405
586-133MHz w/Intel CPU & fan	350
586-120MHz w/Intel CPU & fan	295
586-100MHz w/Intel CPU, CPU fan	270
586-75MHz w/Intel CPU, CPU fan	245

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Logi Trackman	65
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Mini Vertical Case w/PS	45
Med Vertical Case w/PS	65
Full Vertical Case w/PS	85
Colorado 350MB Tape	85
800MB Tape w/TR-1 Cartridge	135
16 Bit Ethernet Card	30
3COM 3C509	70
3COM 3C595 10/100	130
Intel Ether Express 16	75
Intel Ether Express 10/100	100
RAM DIP/SIPP/SIMM	Call

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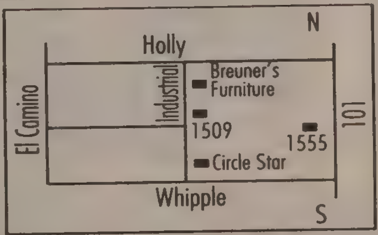
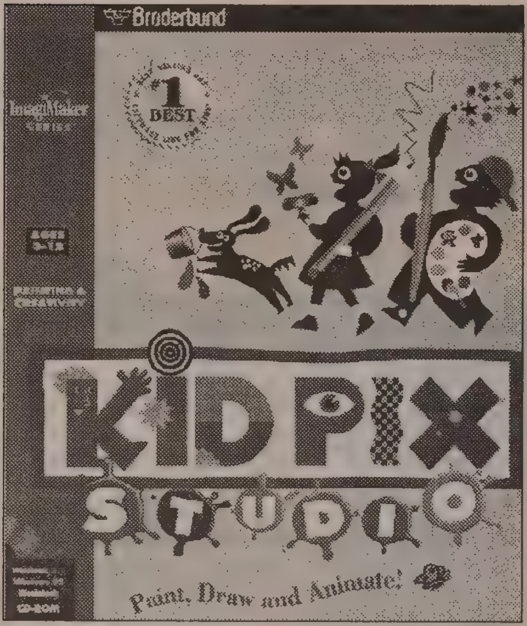


Product Announcements *continued from page 214*

charge as they use everyday math tools to ensure that the party is a success. For kids 8–12. Macintosh or Windows 95. ($50) McGraw-Hill Home Interactive, 255 Shoreline Dr., Ste. 650, Redwood City, CA 94065. (415)802-9010.

Kid Pix Studio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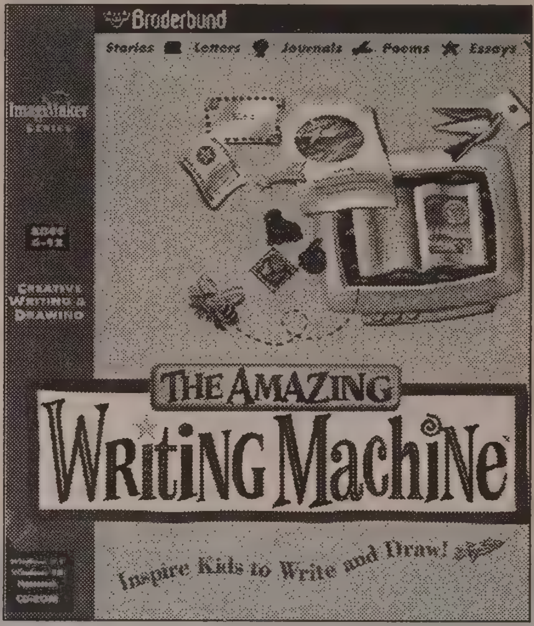
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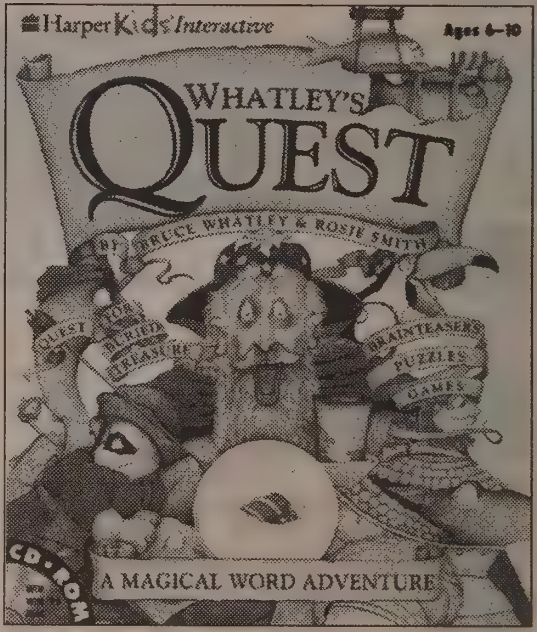
Whatley's Quest, A Magical Word Adventure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BY BRUCE WHATLEY & ROSIE SMITH
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- 14" NI SVGA Monitor .28dp
- SVGA Video Card w/1MB PCI
- 2S, 1P, 1G Ports
- 16-Bit Sound Card
- Speakers
- IDE with I/O
- Mini Tower Case w/PS
- 104 Key Enhanced Keyboard
- Windows 95
- MS Compatible Mouse
- CD Bundle Including Grolier's Encyclopedia, Mavis Teaches Typing, Chess Master, Atlas, & Peter Rabbit

DX4-133 ....$989

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- 256K Pipeline Burst
- 16MB EDO RAM
- 850MB Hard Drive
- 1.44 Floppy Drive
- 14" SVGA Monitor .28dp
- SVGA Card w/1 MB
- 2S, 1P, 1G Ports
- Built-in IDE I/O Controller
- Mini Tower Case w/PS
- 104 Keys Keyboard
- MS Compatible Mouse
- Windows 95

P-100	**$979**
P-120	**$1000**
P-133	**$1059**
P-150	**$1119**
P-166	**$1229**
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- 1.44 Floppy Drive
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- Sound Card Built In
- Quickshot Sound Force Amplified
- 60W Speakers
- PS2 Mouse
- 104 Keys Keyboard
- Multimedia Microphone
- Medium Tower Case w/PS
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- Also includes hundreds of dollars of software!
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200MHz	**$2269**

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Upgrade to 15" Monitor	**Add $120**
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Teac 6X SCSI CD-ROM Drive	160
NEC 8X SCSI CD-ROM Drive	219
Panasonic PCMCIA 4X CD-ROM Drive	399
Sound Blaster 32	129
Stereo Speakers	from 10

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"TV Game +" Your TV is Your Monitor	$139
Snappy, Great for Video Capture	199
MiroVideo DC1 Plus Award-winning digital video editing solution	399
Connectix Quickcam Color	239

NOTEBOOKS

NEC Versa	CALL
Toshiba	CALL
Texas Instruments	CALL
AST	CALL

CASES

Mini Tower Case w/PS	$50
Baby AT Case w/PS	48
Mid-Tower w/PS	65
Full-Tower w/PS	85
ATX Mid-Tower Case	99
Server Tower w/Dual Fan & 250W PS	109

VIDEO CARDS

MGP Card	$15
Diamond Stealth 64/2MB DRAM	80
ATI Mach 64 w/2MB V-RAM	169
Stealth 2/4MB VRAM	179/249
Matrox Millennium 2/4MB	189/279

KEYBOARDS

Maxi Nova	$25
Keytronic	30
Focus 2001	35
MS Natural Keyboard	75
Cirque Glidepoint Keyboard	99

HARD DRIVES

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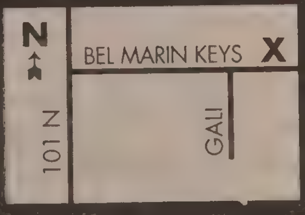
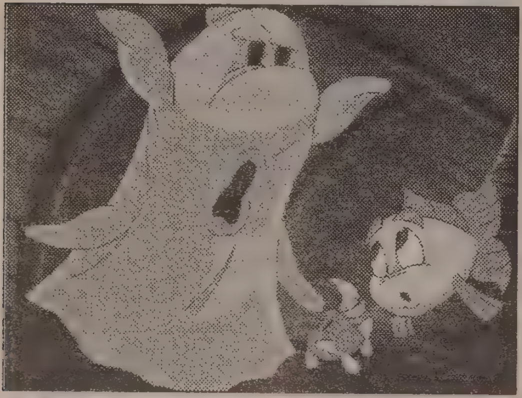


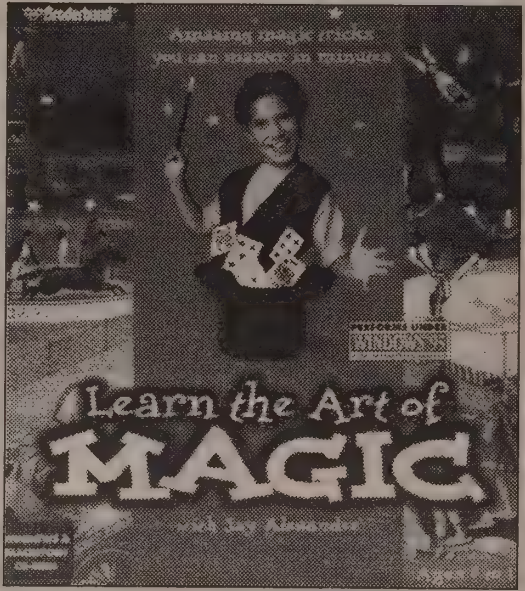
•Dealer Inquiries Welcome•Volume Discount Available•Price subject to change without notice•Trademarks are registered by respective companies rebuild the map by solving challenging puzzles, brain teasers, and games. Only by completing the map will the user prove himself to the Wizard and earn the key to unlock the map's secrets. The game includes beautiful illustrations, original music, and feature-film quality sound effects. CD-ROM for Windows 3.1, Windows 95, and Macintosh. ($35) HarperCollins Interactive, 1-800-424-6234. URL: *http://www.harpercollins.com/hci* .

Freddi Fish 2



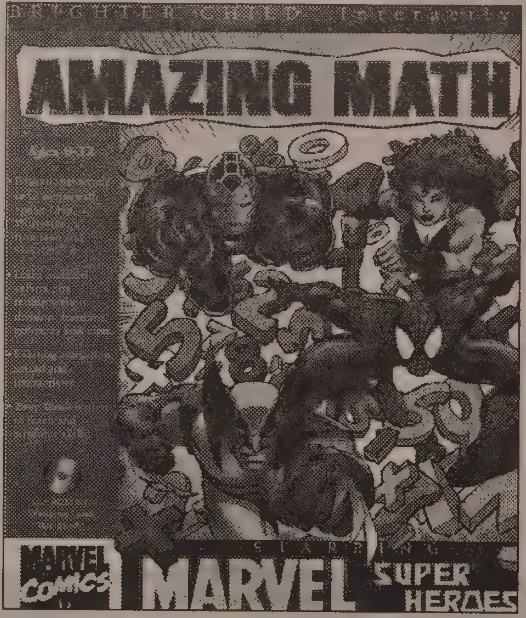
Freddi Fish 2: The Case of the Haunted Schoolhouse is a hand-animated adventure CD-ROM for kids age 3–8, for Windows and Macintosh. Freddi Fish 2 is an underwater world filled with thirty-six new environments, mini-games, surprises, and lovable characters that kinds and parents will enjoy. The games and activities include: Sing-Along, Crab Invaders arcade game, Chalkboard Art for creating words and pictures using pre-made stamps of letters and shapes, and Ceiling Tiles, a sliding picture puzzle. Freddi Fish and her pal Luther are on the case to unmask a phony ghost who has invaded the schoolhouse and stolen all of the guppies' toys. ($39.95) Humongous Entertainment, Inc., 16932 Woodinville-Redmond Rd., NE, Woodinville, WA 98072. 1-800-499-8386 or (206)486-9258. URL: *http://www.humongous.com* .

Learning The Art Of Magic



In Learning the Art of Magic, master magician Jay Alexander teaches magic with humorous antics and helpful tips, introducing twenty-six different magic tricks in all. Also featured are biographies of great magicians ranging from Houdini to Malini, as well as magic slang and props no junior magician should be without, and the magician's oath. Presented in a circus atmosphere, this hybrid Win/Mac CD-ROM will entertain kids ages 8–12 with zany skits and amazing illusions, then presents the mysteries behind the magic. ($35) Brøderbund Software, Inc., 500 Redwood Blvd., Novato, CA 94948-6121. (415)382-4569. URL: *http://www.broderbund.com* .

Amazing Math



Enlisting the help of Marvel Super Heroes, Amazing Math for Windows and Macintosh helps to teach and enhance relevant math skills to kids ages 8–12. Learn addition and subtraction as you help Spider-Man battle Hobgoblin. She-Hulk will help you learn about multiples, factors, and equivalent fractions as she maneuvers her flying car through hoards of attacking Toad Men. Graph Wolverine's progress as the clawed X-Man hones his fighting skills and mutant powers battling the tricks and traps of the Danger Room. Finally, learn how to identify angles, triangles, and quadrilaterals as Iron Man battles Modok, who has taken control of all of Earth's satellites. ($29.99) Brighter Child Interactive, Inc., 23920 Valencia Blvd., Ste. 260, Valencia, CA 91355. (805)286-1000. URL: *http://www.brighterchild.com* .

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continued on page 230

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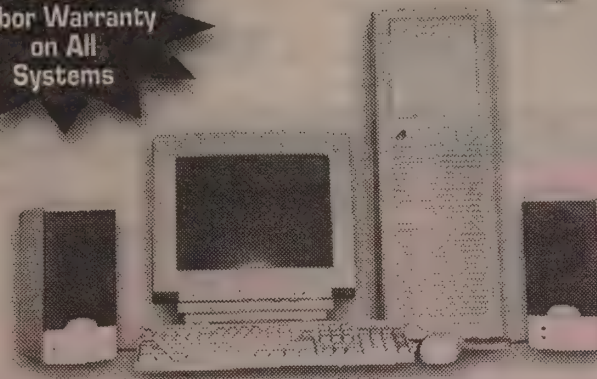

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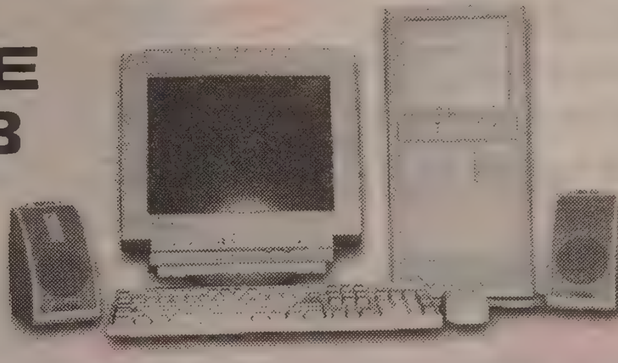

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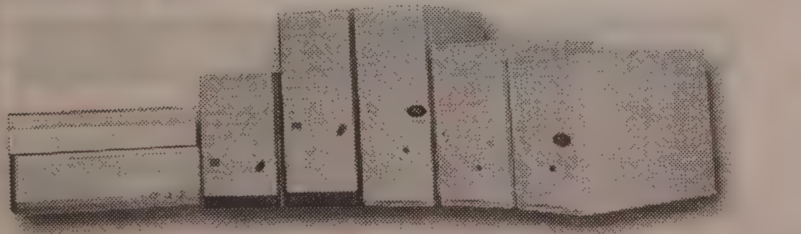

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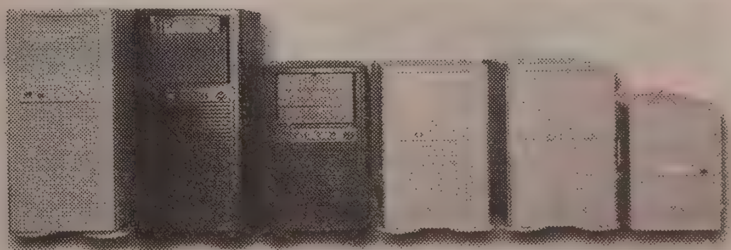

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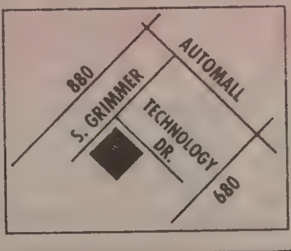

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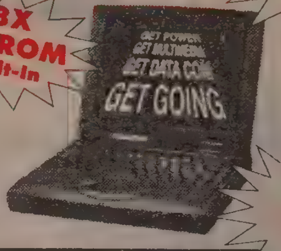

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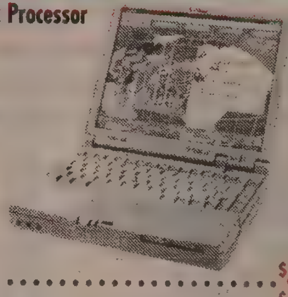

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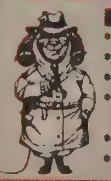

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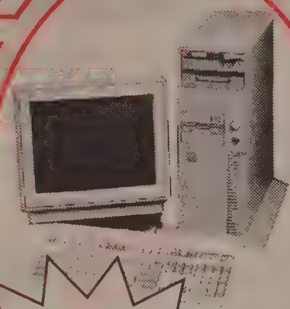

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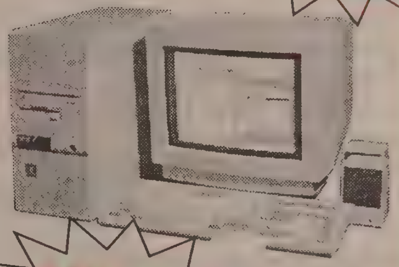

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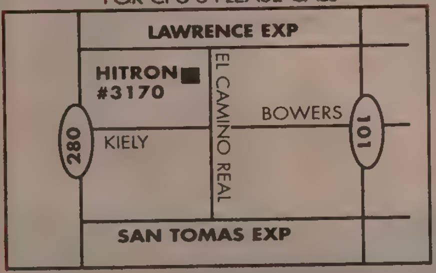

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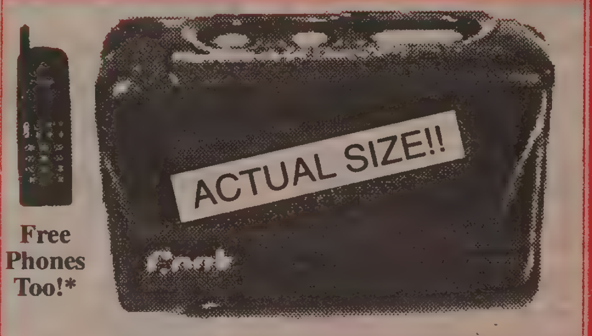

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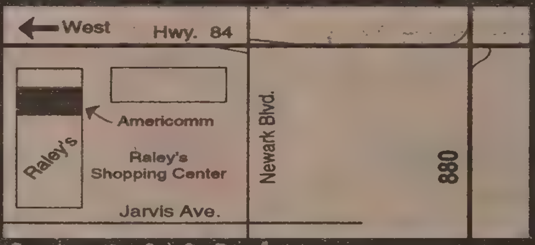

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INTEL EE Pro/10+ w/o Flash TP/5-Pk	100/343
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EE Pro/10+ TP&BNC w/o Flash Single/5-Pk	102/446
EE Pro/10+ TP&BNC w/o Flash 20Pk/80Pk	1,662/6,330
EE Pro/10+ TP w/Flash Single/5-Pk	104/434
EE Pro/10+ TP w/Flash 20/80-Pk	1,560/5,595
EE Pro/10+ TP&BNC w/Flash Single/5/20	110/492/1,787
SMC EtherEZ 10BT Single/5Pk	104/412
EtherEZ 20-Pk/50-Pk	1,441/3,086
EtherEZ Combo/5Pk/20Pk/50Pk	118/521/1,801/4,011
Elite 10T/A 10 BaseT MCA	198
3COM 3C900 Etherlink XL PCI Sing/5/20-Pk	118/560/2,026
3C900 Etherlink XL PCI w/o drivers or docs	80
INTEL EE Pro/10+ PCI/5/20/80Pk	124/490/1,859/6,796
EE Pro/10+ BNC/TP PCI Single/5-Pk	154/724
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MICRODYNE NE5500 PCI Combo/5-Pk	130/600
SMC EtherPower PCI 10BT/5-Pk/20-Pk	120/480/1,727
EtherPower PCI Combo/5-Pk	155/750
EtherPower2 Dual Port PCI 10BaseT	263

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3COM 3C515 Etherlink 10/100 ISA Single/5-pk	164/779
3C515 Etherlink 10/100 ISA 20-pk	2,876
3C905TX Etherlink XL 10/100 PCI Single/5-Pk	139/654
3C905TX Etherlink XL 10/100 PCI 20pk/60pk	2,402/7,012
3C597 10/100BaseT EISA/5-Pk	265/1,262
ASANTE AsanteFAST 10/100 PC & MAC PCI	217
AsanteFAST 10/100 PC & MAC PCI 5/20Pk	1,038/3,677
FARALLON PN990 NUBUS/PN994 PCI	335/205
INTEL EExpress Pro 10/100 PCI/5-pk	133/623
EExpress Pro 10/100 PCI 20Pk	2,460
EExpress Pro 10/100 EISA	260
SMC 10/100BT PCI Single/5Pk/20Pk	145/677/2,462

Fast Ethernet Hubs

3COM 3C250-TX/I 12 100 BASE TX Stackable Hub	1,715
ASANTE AsanteFast 12-pt 100 BaseT Hub	1,200
CANARY 12-pt 100BASE TX Hub	1,499
COMPAQ Netelligent 1000 100BaseT 8-port Hub	970
Micro 10/100 24 port 10/100 Auto Sensing Hub	3,535
FastStack 100BTX 12-pt Unmanaged/Man	2,434/3,239
FastStack Smart Uplink module	592
DLINK Profast II 100BTX 8-pt/12-pt	675/1,219
INTEL Express Stackable Hub 12-pt 100TX	1,635
Express Stackable Wkgp Bundle(1 Hub, 10 Cards)	1,875
SMC Tigerhub 100 8-pt 100BTX Hub/16-pt	1,231/2,368

Token Ring

3COM 3C619C TokenLink III 16/4/10-Pk	230/2,294
Tokenlink III EISA 16/4	576
Tokenlink Velocity PCI TR Single/10-pk	360/3,082
IBM Auto TR 16/4 Type 3 Single/5-pk	256/1,235
INTEL Token Express Pro 16/4 ISA	277
PROTEON P1394+ Token Ring 16/4/10-Pk	232/2,280
SMC Token Ring Elite 16/4 Single/12-pack	264/2,900

PC Card/Parallel Port Adapters

3COM 3C589C PC Card 10BT/COMBO	149/190
3C689 PC Card TR/5-Pk	410/1,935
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IBM PC Card Coax/TP Adapter	242/261
PC Card Token Ring 16/4 Adapter	480
SMC ElitePort EtherNote Combo	235
XIRCOM Pocket Adapter III 10BaseT	259
Pocket ENET III COMBO(BNC & 10BaseT)	325
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SuperStack II Hub 10 12-pt/24-pt/48-pt	533/859/2,196
SuperStack II 10 Mgmt Module/Redundant PS	466/1,032
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Office Connect Fax Server(1L)	1,277
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HEWLETT PACKARD AdvanceStack 12-pt	526
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AdvanceStack SNMP module	462
AdvanceStack w/SNMP 12-pt/24-pt/48-pt	861/1,068/2,052
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SuperStack II Switch 1000 24 10BT, 1 100BTX	2,955
SuperStack II Switch 3000 8-pt 100BTX	5,518
SuperStack II Switch 3000 5-pt 100BFX	7,245
ASANTE ReadySwitch 4 RJ45, 1 Fast Ethernet	1,286
BAY NETWORKS 28115R 16-Pt 10/100 Switch	8,154
BayStack 301 22 10BT, 2 100BT	3,283
CISCO EtherSwitch 1200 25 10BT, 2 100BT	3,645
DIGI RightSwitch PCI 6 Port/EISA 4 Port	1,673/1,074
EAGLE 4 Switched 10BaseT by 4 Shared100BaseT	2,691
4 Switched 10BaseT by 1 100BaseT	2,150
INTEL Express Switching Hub 100BT 5-pt	3,515
NPI Nuswitch FE101 1-100TX, 1-10BT Switch	530
FE-210 2-100TX, 10-10BT	3,105
FE-105 1-100TX, 5-10BT	1,232
FE-506 5-100TX, 6-10BT	3,756
FE-512 5-100TX, 12-10BT	4,618
FE-224C 2-100TX, 24-10BT	2,310
FE-600 6-100TX, Full Duplex	3,003
SMC EZ Switch 6-pt 2-100BT, 4-10BT	1,626
TigerSwitch XFE, 16-10BT, 1-100BT	2,716

Network Management

3COM Transcend Workgroup Mgr for Windows	496
Transcend Enterprise Mgr for Windows	2,462
INTEL LanDesk Mgmt Suite 5/10/100 users	522/696/4,240
LanDesk Server Manager Pro	1,232
LanDesk SNMP Gateway/Response	552/692
NOVELL Lanalyzer for Windows	1,174
NetWare LANalyzer Agent v1.0 Single/Multi	1,198/1,983

Long Distance Repeaters

ASANTE 6-port BNC Repeater	328
TUT Systems XL1501 (1BNC/1RJ11) 1500'	991
XL1502 /XL1503	1,416/1,057
XL1504/XL600 (1 Pair)	2,752/499

Tape Backup Solutions

CHEYENNE ARCserve 5.01g NLM 5/10 Users	261/511
ARCserve NLM 25/50/100	882/1,082/1,219
ARCserve v6.0 WRKGRP-Up to 25/Over 25	400/1,156
Changer Option for ARCserve/Push Agent	423/268
Windows NT Agent for ARCserve	330
NetWare Server Suite	632
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CONNER MS8000 8GB w/BE Netware Int/Ext	707/844
SEAGATE Backup Exec 1 Server 25 Users	354
Backup Exec Single Server/NetWare Ent NLM	497/1,007
Backup Exec Autoloader Option	432
Backup Director NLM 1 SVR/Multi-Server	727/1,164
Storage Manager Single Server 25 Users	733
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STAC Replica for NetWare/Multi-Server Option	713/434
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C1533 DDS2 4mm 4-8GB DAT Int/Ext	922/1,072
C1553 24-48GB Autoloader Int/Ext	2,316/2,616
SONY SDT-5000 4-8GB DDS-2 SCSI Int/Ext	972/1,167

DSU/CSU

MOTOROLA DDS/MR64 V.35 or RS232	463
Switched 56 II v.35	636
FT100S V.35 or RS232	985

Remote Access

ARTISOFT InSync Modemshare 1/2 Ports	129/187
Insync Modem Share 4/8 Ports	348/592
DIGI LANAserver 2E 2 Async/4E Async	1,290/1,907
LANAserver 6E 4 PCMCIA slots; 2 Async	2,152
LANAserver 8E 8 Async	2,588
LANAserver 10E 8 PCMCIA slots; 2 Async	2,896
EMULEX Connect Plus 2 ports/8 Ports	746/2,417
NOVELL NetWare Connect 2/8/32 pts	340/1,362/4,105
NetWare Connect 2-port w/Modem and Serial I/O	905
NetWare Connect 8-port w/Modem and Serial I/O	3,341
HEWLETT PACKARD AdvanceStack Dial-A-LAN Modules	
2A/Plus Module and SNMP Bundle J2633A	2,228
4A Module and SNMP Bundle J2634A	1,754
SHIVA Netmodem/E 28.8	889
Lanrover/E Plus w/2 Async ports/4 Async	1,784/4,329
Lanrover/E Plus w/2 v.34 modems/4 v.34	2,435/5,715
Lanrover/E Async 8 Async/8 v.34 modems	3,652/7,729
DIGI INTERNATIONAL Digi 2-Pt/4-Pt/8-Pt	200/455/588
Acceleport 8EM ISA w/ RISC CPU, DB25	726
XIRCOM NetAccess 4-pt/8-pt	1,671/2,836

ISDN Connectivity

3COM Impact IQ 3C882	368
ASCEND Pipeline 25-PX Single IP/IP & COMP	622/926
Pipeline 25-FX Bridging/COMP	532/838
Pipeline 25-FX IP or IPX/COMP	786/1,103
Pipeline 50 w/NT1, COMP, IPX,IP Single/Multi	860/1,002
Pipeline 75 Multi w/NT1, COMP, IPX, IP, 2 Analog	1,089
Pipeline 130 w/FT1,T1,ISDN	1,443
Pipeline 130 ISDN & L56/SW & L56	1,362/1,457
Max 200 Plus w/4 BRI Cards	3,130
Max 1800 8BRI-16 users w/NT1	5,382
DIGI DataFire U Client ISDN (PPP)	398
DataFire Server S1 Server-Based ISDN	536
PC-IMAC ISDN	533
PC-IMAC Multiport ISDN/4-1/4-2/4-4	672/1,064/2,092
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NT1D Network Terminator	186
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Lanrover/E Plus 4-BRI Enet	6,217
US ROBOTICS Sportster ISDN adapter	399
Courier-I Modem w/V.34 w/Analog Int/Ext	487/542
Courier-I Modem w/ISDN/V.34 w/o Analog Int/Ext	432/542

Network Printing Solutions

CASTELLE Jetpress XIO BNC/10Base-T	381
Jetpress MIO for HP4/MIO PLUS	349/451
LANPress 10BT(1 Parallel)/Combo (1P/1S)	313/362
LANPress THICK/10BT (2 PAR/2SER)	425
HEWLETT PACKARD JetDirect 10BT MIO	298
JetDirect Combo MIO BNC/10BT	400
JetDirect Ethernet EX Plus (Multiprotocol)	303
JetDirect EX Plus3 (3 LPT/Multiprotocol)	415
JetDirect Token Ring EX/EX Plus3	567/682
INTEL Netport EL Ethernet/Token Ring	422/588
NetportExpress XL for Ethernet/TR	415/565
Netport Pro 10BT Int(MIO)/3 Pack	281/753
Netport Pro 10BT Ext 2P/1S/3 Pack	400/1,090
Netport Pro 100 10/100BT Ext 2P/1S/3 Pack	479/1,340

Network Fax Solutions

CASTELLE FaxPress 1000, 10BT/BNC	1,576
FaxPress 2000 1-line/FaxPress 2000 2-line	2,367/2,709
Faxpress 3000 2-line/FaxPress 3000 4-line	2,986/3,580
CHEYENNE FaxServe 3 NLM 5/10/25	393/717/1,177
FaxServe 3 NLM 50/100	1,816/2,533
FaxServe 3 NLM 250/500/1000	3,801/4,982/6,229
SYMANTEC Net Satisfaxtion 25/1000 users	742/990
Winfax Pro for Networks 5/10/25/50	384/ 640/1,478/2,754
Starter Kit (1 Server, 2 nodes)	258

Network CD-ROM

MERIDIAN CDNET PLUS DOS/NLM (10 Users Start)	677
CDNET Plus DOS/NLM (100 Starter Kit)	1,482
CDNET Plus Expand (50/100)	525/896
CD NetLink Miniserver 7/14	695/936
MICRO DESIGN SCSI Express for NetWare, MDI	599
SCSI Express CDROM, Non-MDI	808
CD-Rom LaserBank 600CD Ext. Single/Dual	599/1,117
MICROTEST Discport Ethernet/Token Ring	488/818
Discport w/ Discview Pro ENET/TR	733/1,066
Discport w/NEC Ext. 6X Speed CD-Rom	859
Discport w/NEC 6X 4CDROM in 7-Unit Tower	1,972
Discport w/NEC 6X 7CDROM in 7-Unit Tower	2,708

Uninterruptible Power Supplies

APC Back-UPS 400/450	163/200
Back-UPS 600/900/1250	273/392/512
Powerchute Plus for Novell/Unix/Windows NT	99/149/99
Smart-UPS Value Server 420/650	291/343
Smart-UPS Value Server 1000/1400	484/635
Smart-UPS 450/700/700RM/1000	330/398/499/548
Smart-UPS 1000RM/1400/1400RM	646/675/805
Smart-UPS 2200/3000/3000RM	1,183/1,895/2,061
Matrix 3000/5000/Smartcell	3,720/4,616/537
SNMP Agent for Novell/SNMP Mgr for Netware	125/145
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Cable Testers & Supplies

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AT10K Crimper Kit w/5 DIES & case	259
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MICROTEST MT310 Kit	739
MT350 Value Kit/Fiber Solution Kit	1,837/1,482
Penta Scanner w/Super Injector	2,910

Novell Software

Lan WorkPlace for DOS Single/10 Users	197/1.498
Lan Workplace for Mac Single/10 Users	289/1,437
Lan WorkGroup-5/10/25 Users	1,202/1,983/2,612
NetWare for Mac v3.12 200 Users	746
Branch Link Router/Enterprise Router	712/1,966
NetWare NFS/Gateway Bundle	2,909
NetWare NFS Service for NW4.1	2,237

E-Mail

cc:MAIL Desktop-Windows/DOS	125
cc:Mail License 10 users/50 Users	598/2,804
Mobile for DOS/MAC	150/150
Router/Fax Server/Web (Single)	95/1,459/189
Link to UUCP/Link to SMTP/Link to MHS	372/2,473/528
MICROSOFT PC Mail Server + 10 Users	485
PC Mail 5/20/100 Users	273/930/3,633
MHS Gateway/PROFS	708/3,405
SMTP/X400/Fax Gateway	3 241/3,194/1,419

Network Utilities

SYMANTEC Anti-Virus for NetWare 10/25	605/1,378
CHEYENNE InocuLAN Wrkgrp/1Svr-Unlimited	334/650
InocuLAN 5 Svr-Unlimited Users	2,534
InocuLAN Option v4.0 for ARCserve 6	334
FRYE Early Warning System or Lan Directory	350
INTEL LanDesk Virus Protect (Single)	691
LanDesk Virus Protect 4-pk/20-pk	2,077/6,750
ONTRACK Data Recovery NetWare	214
SEAGATE Prepare! Disaster Recovery SW	573
SYMANTEC Norton Admin. 5/10 Users	247/438
Norton Admin. 25/50/100 Users	1,068/2,028/3,680

ARTISOFT Peer-to-Peer Networking

ARTISOFT LANtastic 7.0 Network Starter Kit	260
LANtastic 7.0 Software Single/10 User/Unlim.	99/377/740
Power Suite Starter Kit 2 Users	412

Server Mirroring

VINCA Campus Standby Server Software	2,411
Standby Server NetWare/Windows NT	2,813/2,813
Entry Level StandBy Server	1.062

Windows NT Solutions

3COM Transcend Workgroup Mgr for NT	463
Transcend Enterprise Manager	2,353
CHEYENNE Arcserve for Windows NT v6.0, Single Svr.	490
Arcserve for Windows NT v6.0, Enterprise Edition	860
Arcserve for NT NetWare Agent	438
CONNER MS4000 4GB EXT w/ Backup Exec NT	567
MS8000 8GB w/Backup Exec NT Int/Ext	659/790
Backup Exec for Windows NT NetWare Agent	492
INTEL Landesk Workgroup Mgr 25/250 nodes	695/5,765
MICROSOFT Windows NT Workstation	317
Windows NT Server w/5/10 Clients	812/1,128
SMS System Mgmt Server w/5 clients	943
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Exchange Server Enterprise w/25/50 clients	4,099/5,429
Exchange Add'l Clients 5/20	366/1,160
Exchange Internet Mail Connector	498
Front Page WIN95/NT	156
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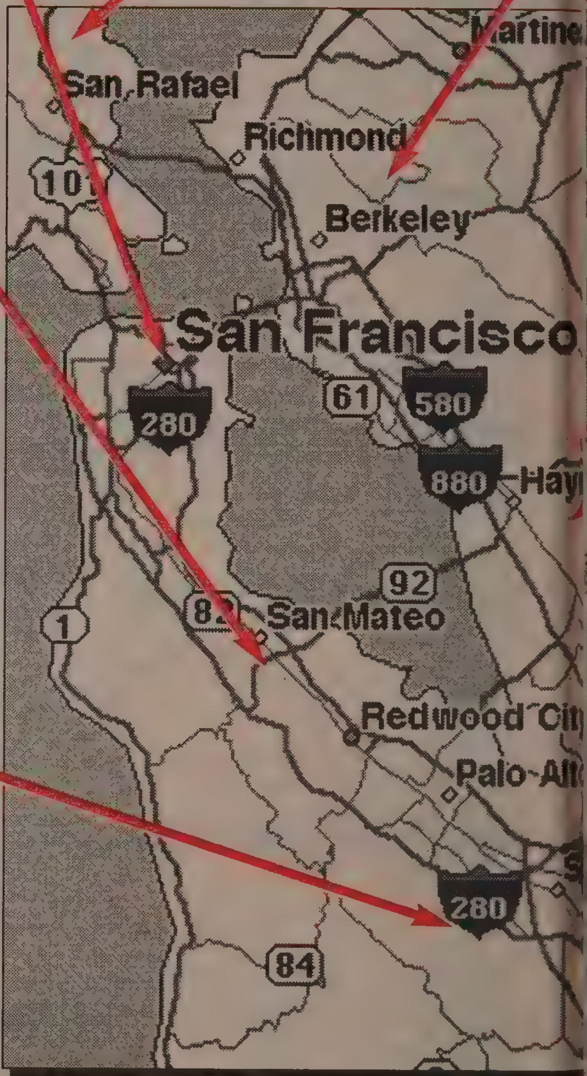

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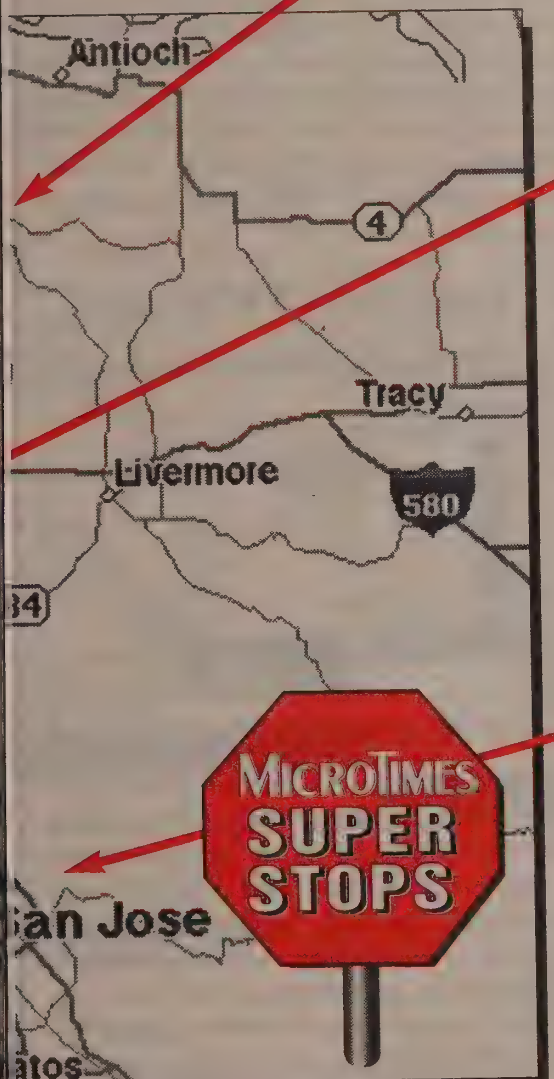

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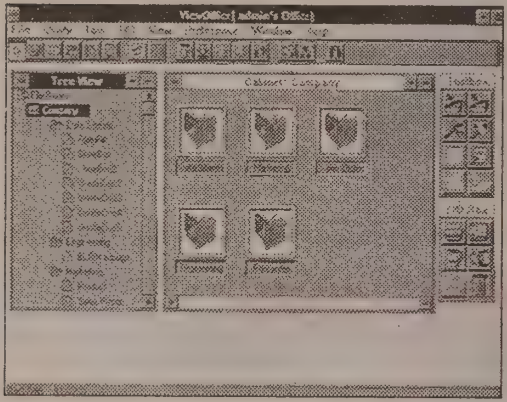


ViewOffice PowerSuite provides a set of applications for scanning, faxing, printing/copying, filing and retrieval, business card scanning and indexing, color image editing and special effects, OCR, and forms editing. The main program of the suite, Presto! PageManager, controls the scanner and scanning operations. It allows users to link any TWAIN or Adobe Plug-In compliant scanner to other desktop applications. Scanned documents are compressed and stored in the In-Tray and users can drag-and-drop to file them or send them to other applications. The suite also features Kai's Power Goo, which provides users with powerful, real-time image manipulating capabilities. ViewOffice PowerSuite requires a Macintosh 68030 or higher, System 7.0 or higher, 8MB available RAM, and 20MB hard disk space. ($79) NewSoft, Inc., 47400 Seabridge Dr., Fremont, CA 94538. 1-800-214-7059. URL: *http://www.tophat.com* .

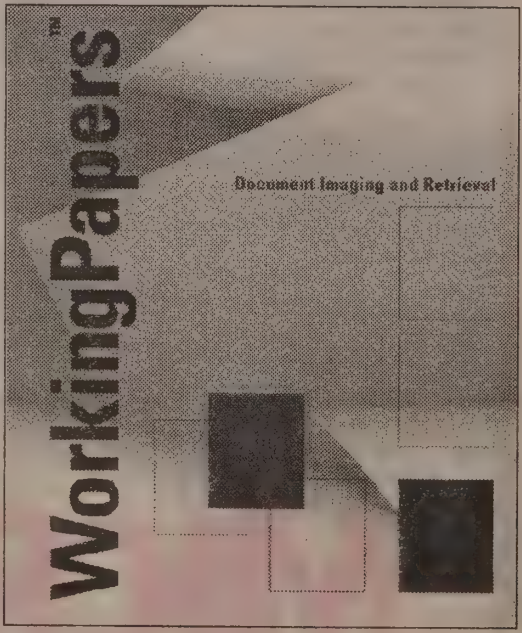
Day-Timer Organizer for the Macintosh

Day-Timer Organizer personal information manager offers a new, more intuitive interface, enhanced integration with other applications, and additional features to make time management easier and more convenient. New features include enhanced quick fill, balloon help, more comprehensive online help, and speed-dial for frequently called numbers. Version 2.1 offers a new interface for ASCII importing, allows database synchronization between desktops and portable computers, and provides the ability to mail merge with Claris Works and Microsoft Word. Files can be attached to individual entries for easy access to related information and icons will appear next to the entry indicating they contain links, attachments, and/or notes. (Single-user version, $59.95) Day-Timers Technologies, 2855 Campus Dr., San Mateo, CA 94403. (415)572-6260.

e • Paper

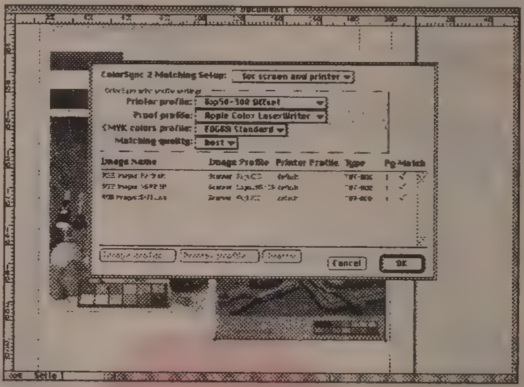
The e•Paper software package is a document archival and management suite for the Macintosh. It allows users to scan documents into a computer, and then provides annotation, indexing, and access to documents stored offline for future search and retrieval. It is designed for task-oriented operation with such features as automatic paper detection, single-click document processing, and true archive capabilities. A full-featured mark-up application provides an array of tools for annotating documents, including a format-sensitive text editor that automatically adjusts text specifications to the underlying document format, along with a variety of other tools. Fully integrated into the system is Xerox's TextBridge software for Optical Character Recognition (OCR) capabilities. ($170) Second Glance Software, 7248 Sunset Ave. NE, Bremerton, WA 98311. (360)692-3694. *info@secondglance.com* .

WorkingPapers



WorkingPapers is a Macintosh-based document imaging and management system for the small office/home office as well as for small workgroups within larger companies. With its fully integrated optical character recognition (OCR) capabilities, WorkingPapers allows users to scan in paper documents, organize them into searchable collections, find them quickly, share them, print and fax them, and email them to others. Collections may be searched by contents as well as file attributes. Multi-page documents are supported, and sound annotations can be added to each page. Once documents are scanned, WorkingPapers allows users to perform OCR and indexing in interactive and batch mode. The software supports black-and-white, grayscale, and color images. ($199) Dominion Software, 272 Centre St., MA 02158. (617)332-1144. URL: *http://www.triplesoft.com/dominion/* .

ColorSync 2 XTension


ColorSync 2 Matching Setup: for screen and printer

Proof profile: Apple Color LaserWriter

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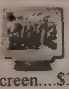

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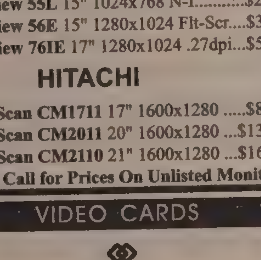

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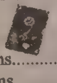

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- PCI 32BIT EIDE w/ (2)16550 I.O.'s (1)Par.
- PCI Diamond Stealth 64 Video Card 2MB DRAM (64Bit Graph. 16.7MBColors.)
- Mini Tower Case with 230Watts P.S.
- Microsoft Mouse
- Keytronic 104 WIN95 Keyboard
- Windows95 w/ Manual and Registration

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Monitor Not Included

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- 256K Pipelined Cache Memory.
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- 850MB IDE Hard Drive.
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- 32Bit EIDE w/ 16550uart IOs
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- Mini Tower Case with 230 Watts P.S.
- 3 Button Mouse/ 104 Enhanced Keyboard

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PENTIUM® 120MHz	*$955*
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NET SURFER SPECIALS

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- 850MB EIDE Hard Drive.
- 1.44MB Floppy Drives.
- 32Bit EIDE w/ 16550uart IOs
- S3 1MB Video PCI Video Card
- 14" Impression SVGA .28dpi N-I Monitor
- Boca 33.6K Internal Fax/Modem
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- 3 Button mouse/104 Keyboard

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Cyrix 6x86-P166	*$1125*
Cyrix 6x86-P150	*$1071*
Cyrix 6x86-P133	*$1021*
AMD 5x86K5-P90	*$1000*
AMD 5x86K5-P75	*$930*
AMD 5x86-133	*$895*
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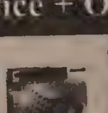

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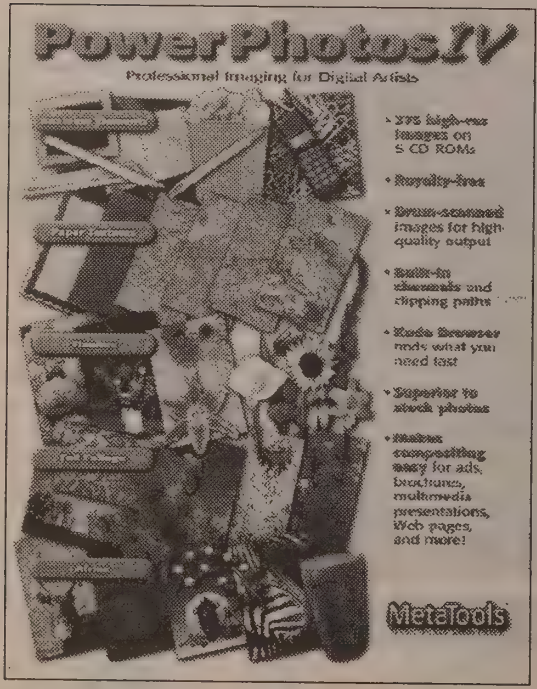
PARAMOUNT
COMPUTER

CodeWarrior Gold 10

CodeWarrior Gold 10, a suite of programming tools for the Macintosh, provides support for software development in four programming languages (C/C++, Object Pascal, and Java), five operating systems (MacOS, Windows 95/NT, BeOS, Magic Cap, and PowerTV OS), and four microprocessors (68K, PowerPC, x86, and MIPS), all in one intuitive development environment. Its unique, modular, front-end/back-end architecture offers true cross-platform compiling, making it easy to port applications from one operating system to another. Version 10 brings a host of new features to the IDE, enhanced Java and OpenDoc support, and new documentation. ($399. Registered users receive two free updates in January and May 1997 and technical support) Metrowerks, Inc., Austin, TX. 1-800-377-5416. URL: *http://www.metrowerks.com* .

Multimedia Software

PowerPhotos IV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MetaTools

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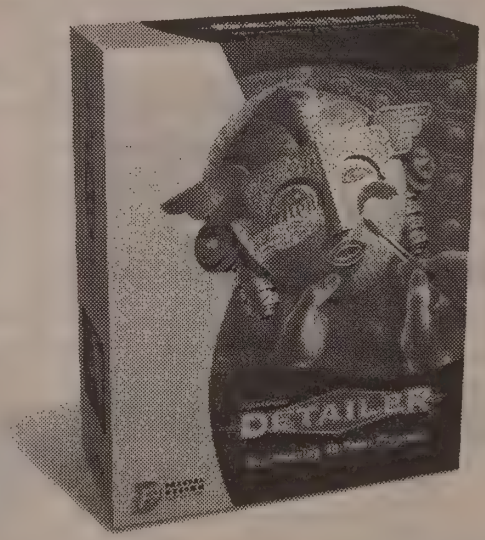
Detailer



Fractal Design Detailer, for Macintosh and Windows, allows users to paint on the surface of 3-D models in real-time. It provides a way for 3-D artists to easily create bump and texture maps for objects and characters used in 3-D animations. For print and multimedia designers, Detailer bridges the gap between 2-D and 3-D, allowing users to create colored, textured, rendered 3-D objects for use in image-editing composition. Detailer is delivered on a CD-ROM with over 100 surface textures, over 100 seamless patterns, 120 photos, an assortment of 3-D models, and over 100 different brushes. ($449) Fractal Design Corp., 5550 Scotts Valley Dr., P.O. Box 66959, Scotts Valley, CA 95067-6956. 1-800-297-COOL. URL: *http://www.fractal.com/* .

PictureAlbum

PictureAlbum

PictureAlbum, available for both Windows and Macintosh, makes it easy for anyone with a computer to create custom photo albums from images taken with digital cameras, scanners, and video cameras. Once the photos have been digitized, PictureAlbum allows users to construct their albums with easy design features built into the software. Images are laid out on the pages as they would be with a traditional photo album. Text captions, backgrounds, picture frames, and even voice descriptions can be added with a few clicks of a mouse. Editing features allow users to crop or scale each photo , orient and color adjust all images. Users can share their digital albums by printing them, sending them via email, floppy disks, or by publishing them to the Web. ($99.95) Media Minds, Inc., P.O. Box 910091, San Diego, CA 92191. (619)453-3133. URL: *http://www.mediaminds.com/* .

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- Microsoft Windows 95
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- Microsoft Compatible Mouse w/Pad
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- Diamond Stealth 64 w/2MB VRAM PCI
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- 180Watt Stereo Speakers
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- Windows 95 Keyboard
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C500/XV 15+/XE 15	369/458/534
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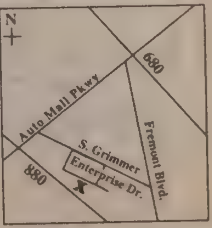

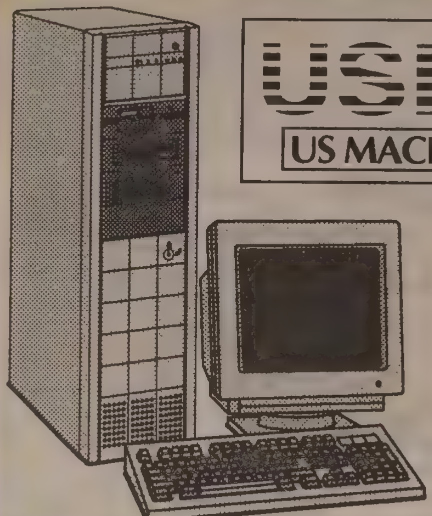

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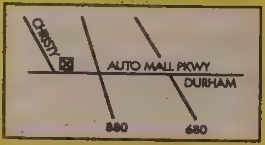

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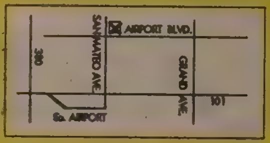

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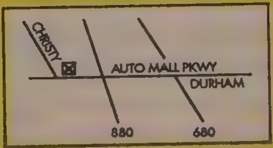

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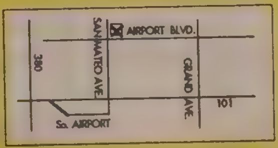

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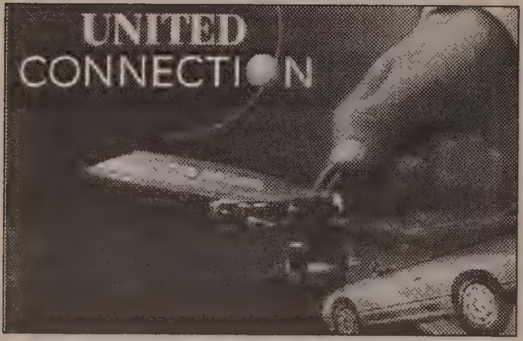

itinerary, a profile section for storing customer travel preferences such as seat location and special meals, real-time flight arrival and departure times and gate information for United flights, and up-to-date Mileage Plus account information. United Connection users can also ticket themselves using a number of options, including electronic ticketing. For Windows 3.1 and Windows 95. ($25) United Airlines, P.O. Box 66100, Chicago, IL 60666. 1-800-4UA-CNXN (482-2696).

VytalVault Electronic Vaulting System

The VytalVault Electronic Vaulting System is a data storage back-up system that uses a Windows-like interface to allow users to store and recover data locally or remotely via conventional communication lines. Users can quickly and easily select, send, and store critical data from personal computers, workstations, and servers to a variety of destination types. These targeted destinations include a remote VytalVault Server System (VSS), using either analog or digital communication lines, a LAN-based VSS, a local SCSI tape drive, or LAN-based disc device. Once the back-up is defined, the scheduling system requires no further human intervention. Using its Delta Technology, the VytalVault Client System determines the actual portion of data that has been modified since the last back-up. This data is then compressed and transmitted. For Windows 3.1, Windows NT, or Windows 95. (Basic package, $95) VytalNet, Inc., 293 Church St., Oakville, Ontario, Canada L6J 1N9. (905)844-4453. URL: *http://www.vytalnet.com* .

DiskMapper

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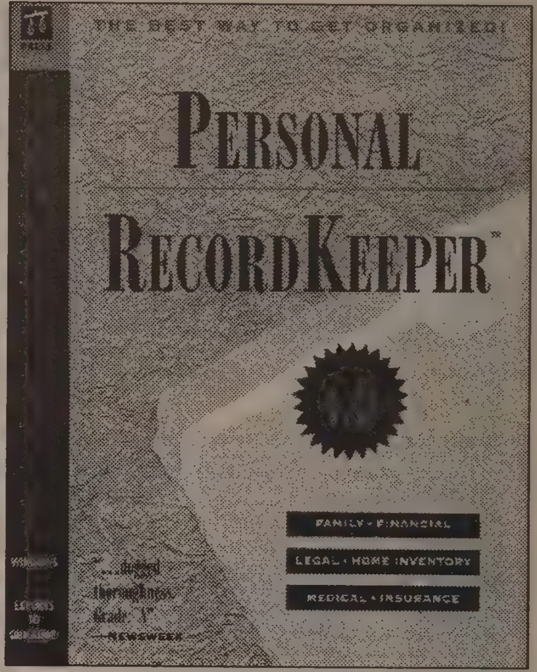
DiskMapper is a graphical file manager for Windows that graphically displays the size of every file and subdirectory on a hard disk. It can be used to examine the relative sizes of files and subdirectories to aide in "cleaning up" old and unnecessary files on a hard disk. It uses a new nested rectangle format to give comprehensive information about your hard disk on one single screen, using a status bar which displays the full file path, size, date, and extension type of each file pointed at with the mouse. This can be used to give users a clear, visual idea of what programs and data are taking up the most space on a hard drive. For Windows 3.X and Windows 95. (49.95) MicroLogic, 89 Leuning St., P.O. Box 70, Hackensack, NJ 07602. (201)342-6518. URL: *http://www.miclog.com* .

MiniCad 6 for Windows

MiniCad, the popular Macintosh CAD program, has now been released in a Windows 95, Windows NT, and Windows 3.1 version, making it the only mid-priced CAD program that's available for both major platforms. The Windows version, like its Macintosh predecessor, includes a full array of 2-D drafting and 3-D modeling resources, a powerful, built-in database to help track costs and materials, and a macro programming language that allows users to create customized macros to automate their complex and repetitive drafting tasks. In addition, because the program's Macintosh and Windows file formats are identical, users can transfer MiniCad files between the two platforms flawlessly. ($795) Diehl Graphsoft, Inc., 10270 Old Columbia Rd., Columbia, MD 21046 USA. (410)290-5114. URL: *http://www.graphsoft.com* .

Personal RecordKeeper



Personal RecordKeeper is an easy-to-use, all-in-one home recordkeeping system which can be used to get organized, cut clutter, and save time. The program will keep track of insurance records, credit card information, securities, investments, deeds, tax records, medical history and information, location and value of collectibles and other possessions, emergency information, personal and family history and information, and much more. Searches and sorts can be done by name, date, dollar amounts, or any other available field. Passwords can be assigned to lock specific categories to keep information private. The program will even create a list of your assets and liabilities and print out a net worth report, which can be useful in any kind of financial or real estate planning. ($50) Nolo Press, 950 Parker St., Berkeley, CA 94710. (510)549-1976. URL: *http://www.nolo.com* .

Win What Where 96

Win What Where 96 is a sophisticated system that efficiently tracks usage for all applications

continued on page 248

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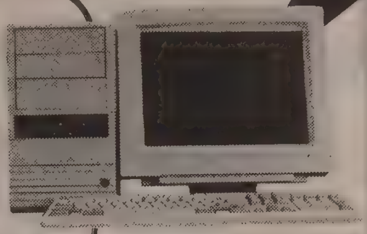

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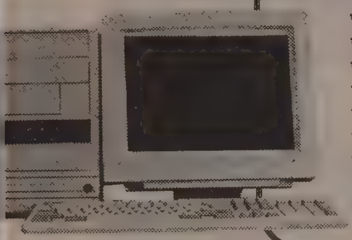

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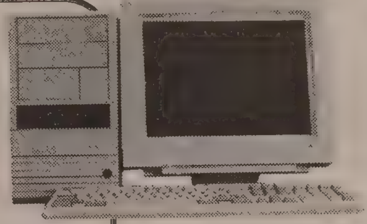

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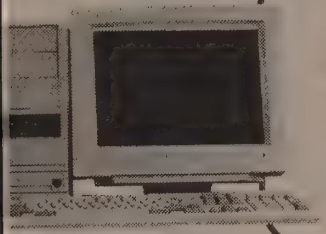

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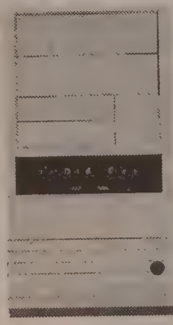

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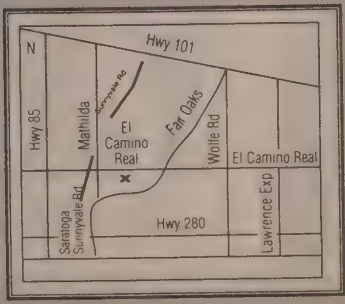

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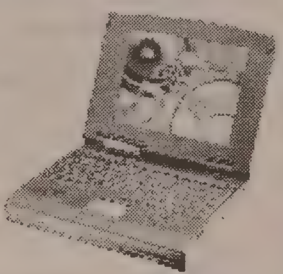

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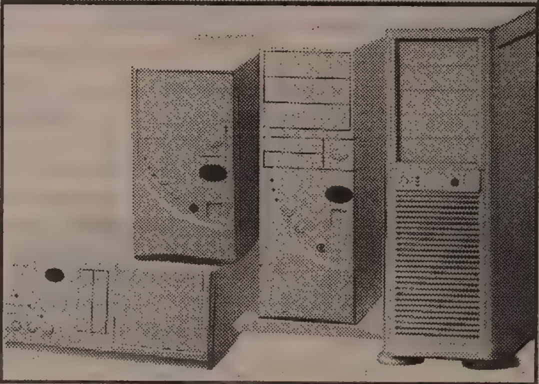

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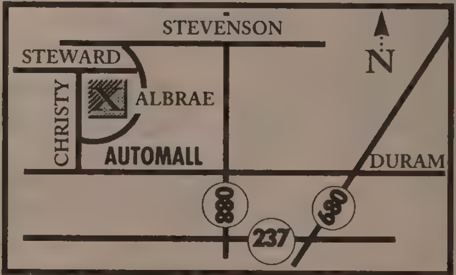

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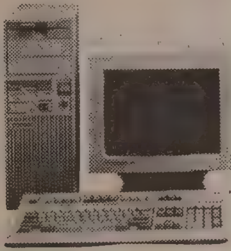
- Viewsonic 17" GS (1280x1024)
- 105 Win 95 Keyboard
- Windows 95 Software & Manual
- Microsoft Mouse

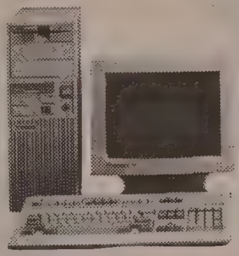
$3099



COMPUDATA BUSINESS MACHINE

- Intel Pentium® 166MHz CPU
- Intel Motherboard
- 256K Pipeline Burst Cache
- 16MB EDO 70ns Memory
- 1.44MB Floppy Drive
- Seagate 2.1GB EIDE Hard Disk
- Toshiba Six Speed CD-ROM
- Microsoft Ergonomic Keyboard
- Microsoft Ergonomic Mouse
- Microsoft Windows 95 (Manual & Reg)
- Medium Tower Case
- Viewsonic 15ES 15" SVGA .28 Monitor
- Supra 28.8 Fax/Modem
- ATI SVGA Card w/1MB VRAM
- EIDE PCI

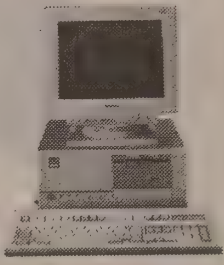
$1949



COMPUDATA 133MHz

- Intel Triton Motherboard
- Intel Pentium® 133MHz
- 256K Pipeline Cache
- 16MB RAM
- 1.44MB Floppy Drive
- 1.0GB Hard Drive
- IDE PCI w/I/O
- Diamond Stealth 64 SVGA PCI w/2MB
- Viewsonic 15ES 15" SVGA Monitor
- 105 Enhanced Keyboard
- Microsoft Windows 95 & Mouse
- 28.8 Fax Modem

$1399



BEST BUYS

HP Vectra XM4 Desktop PC

- Pentium® 120MHz
- 256K Cache
- 16MB RAM
- 840MB Hard Drive
- 64-Bit PCI SVGA w/1MB Exp. to 2MB
- Integrated 32-Bit PCI 10 BaseT Ethernet
- 2-Button Mouse
- Keyboard
- Windows 95 or WFW & DOS

3-Year Warranty, First Year On-Site

$1200

AST Bravo MST 5133

- Pentium® 133MHz/256K Cache
- Mini Tower
- 16MB RAM
- 1.2GB Hard Drive
- 16-Bit Sound Card
- 1MB Video RAM
- Windows 95 (Plus! lots of software)
- Speakers & Mic
- Keyboard & Mouse

$999

AST Advantage 626

- P-133MHz/256K Cache/Desktop
- 1.2GB Hard Drive
- 16MB RAM
- 6X CD-ROM Drive
- 28.8 Fax/Modem
- 16-Bit Sound Card
- 1MB Video DRAM
- Win 95 Pre-loaded (Plus! lots of software)
- Speakers & Mic
- Keyboard & Mouse

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Advantage 623 P100MHz/8MB/4X CD	$900

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- Pentium® 133MHz Processor
- 16MB RAM Exp. to 80MB
- 1.3GB Hard Drive
- 2 PCMCIA Slots
- 11.3" TFT Active Matrix Screen
- 16-Bit Graphics Accelerator
- Accupoint
- 3-Year Warranty

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AST Ascentia J Series STN Color

- P-100MHz, 10.4" SVGA DS-STN Color LCD
- 800MB Removable HDD, 1.44MB FDD
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- 256K Level 2 Cache, 14.4k Fax Modem
- Windows 95 Pre-loaded

$1499

AST Ascentia P Series STN Color

- P-100MHz, 11.3" SVGA DS-STN Color LCD
- 800MB Upgradable HDD, 1.44MB FDD
- 8MB RAM, SmartPoint Touchpad
- 256K Level 2 Cache, 4X CD-ROM
- Windows 95 Pre-loaded

$1999

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HP LaserJet 4ML 4ppm B&W **(Mac Compatible)**	$569

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Iomega Ditto Drive 3200 Ext.	$299

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- Genuine Intel Pentium® CPU Processor
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- **64-Bit PCI Local Bus Ctlr with 1MB DRAM Video**
- 11.3" Dual Scan or 12.1" Active Matrix Color
- 800x600 Panel Screen and 1024x768 on External CRT
- 1.44MB High Density Floppy Drive
- **1.08GB EIDE Removable Hard Disk (1.3GB Optional)**
- PCMCIA Slots (1x Type II and 1x Type III) MPEG Ready
- Built-In PS/2 Touchpad Pointing Device
- 16-Bit Audio Sound Blaster Compatible Stereo Sound System
- **Internal 6X CD-ROM Drive (Co-existing with floppy drive)**
- IrDA Infrared Date Transfer; Hi-Speed Serial and Parallel Ports
- Weight: 7.0lbs w/Int NiMH Battery
- Dimensions 11.8" X 9.9" X 2.2"

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w/Cellular
Voice
$199

HOT SPECIAL
Novalink 28.8
w/Cellular
LAN Combo
$330

	Dual Scan	Active Matrix
Pentium® 100MHz	$2065	$2625
Pentium® 120MHz	$2095	$2655
Pentium® 133MHz	$2145	$2695
Pentium® 150MHz	$2195	$2755

Chembook 6800

Specifications:

- Intel Pentium® 100/120/133/150/166/200
- 12.1" Active Matrix SVGA or Dual Scan Screen
- 2MB EDO Video RAM
- **8MB EDO RAM Expandable to 64MB**
- 800X600 x 16 Million True Colors
- **64-Bit PCI Bus with Graphics Accelerator**
- Systemsoft Flash BIOS with PnP
- Built-in 8X CD-ROM
- 16-Bit Stereo Sound System w/Built-in Stereo Speakers
- Built-in Microphone
- 3 x Type II or 1 x Type III (Supports Zoom Video Port)
- Modem Ring in Wake-up on Power Management
- Built-in 1MB Mask ROM Hardware Wavetable
- **1.44MB Removable Floppy Drive**
- **1.08GB EIDE Removable Hard Disk (1.3GB Optional)**
- Infrared IrDA & FIR/RCA Jack for TV-Output

Options:
Battery Charger/Car Adapter
PCI Docking/Port Replicator
MPEG Module

	12.1" Active Matrix	12.1" Dual Scan
Pentium® 100MHz	$2745	$2095
Pentium® 120MHz	$2765	$2115
Pentium® 133MHz	$2795	$2155
Pentium® 150MHz	$2865	$2215
Pentium® 166MHz	$2995	$2325
Pentium® 200MHz	$3195	$2535

DFI 6600

Specifications:

- Intel Pentium® 75/100/120/133MHz
- 256KB L2 Cache Memory on Board
- **8MB EDO RAM Built-In (16, 24, 32, 40MB Optional)**
- 32-Bit Local Bus with 2MB Video RAM
- **11.3" Screen on Dual Scan & Active Matrix**
- **3.5" 1.44MB Removable Floppy Drive**
- **5.25" 6X Enhanced IDE Interface CD-ROM Drive (Optional)**
- 16-Bit Audio Sound Blaster Compatible Sound System
- 2 Type II Slots or 1 Type III PCMCIA Slot
- **1.08GB EIDE Removable Hard Disk (1.3GB Optional)**
- **Built-In TouchPad**
- Built-In Speakers and Microphone
- 110V-240V AC Adapter
- Removable NI-MH Battery
- Durable Carrying Case
- Built-In IrDA Compatible HP Infrared Communications Module
- 1 Serial Port (16550 UART), Parallel Port (EPP/ECP), MIDI/Joystick Port, (RCA Composite Video Port,

	Dual Scan	TFT Active Matrix
Pentium® 100MHz	$1925	$2275
Pentium® 120MHz	$1995	$2325
Pentium® 133MHz	$2095	$2445
12.1" Active Matrix . . .Add $250		

DFI 7200

Specifications:

- Intel Pentium® Processor
- 256K L2 Cache
- Lithium Battery
- 10.4" Active Color 800x600
- 16MB RAM Expandable to 64MB
- Removable 1.3GB Hard Drive
- Removable 1.44MB Floppy Drive
- Built-In Infrared Port for Wireless Communications
- 2 Type II and 1 Type III PCMCIA Slots
- I/O Ports
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- 6X CD-ROM Drive Optional
- 16-Bit Stereo Sound System
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- TouchPad Pointing Device

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Pentium® 120MHz	$2400
Pentium® 133MHz	$2500
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- 8MB RAM Exp to 64MB on Board
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- 1.44MB High Density Floppy Drive
- On-Board EIDE Controller w/16550
- High Speed Serial & EPP Ports
- Seagate 1.2GB EIDE Hard Drive
- 32-Bit PCI Graphic Accelerator Video w/1MB Exp to 2MB
- 16-Bit Sound System
- IBM 6X Int. CD-ROM
- Mini Tower Case w/230W Power Supply
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100MHz	**$745**
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Specifications:

- Intel Pentium® Pro 200MHz
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- 32MB RAM
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- Seagate ST32140A 2.1GB EIDE Hard Drive
- Mitsumi 8X CD-ROM Drive
- ESS ST-1868 16-Bit Sound Card
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- Diamond Stealth 64 PCI 2MB VRAM
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- Logitech PS/2 Mouse 2-Button, w/Mouse Pad
- Multimedia 120-Watt Speakers
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Specifications:

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AMD

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Matrox Millennium PCI 2/4MB WRAM	$199/279
ATI Graphics Pro Turbo 64 2/4MB VRAM	$275/435
Diamond Stealth 64 V. PCI/VLB 1/2MB DRAM	$90/125
Diamond Stealth 64 V. PCI/VLB 2/4MB VRAM	$165/245
#9 FX Motion 771 PCI/VLB 2/4MB VRAM	$245/395

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DTC 2280 ISA IDE 2HD/2FD/16550	$18
DTC 2278E VLB EIDE 4HD/2FD/16550	$28
Promise EIDE/ISA w/BIOS	$29
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Adaptec 1542CP ISA Fast SCSI/Kit	$165
Adaptec 2940 PCI Fast SCSI/Kit (OEM)	$185
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IBM 6X	$80
Mitsumi 8X	$100

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Smartlink 33.6 Int AT&T Chip	$105
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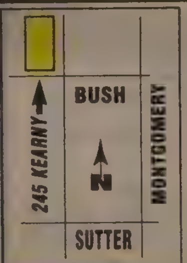

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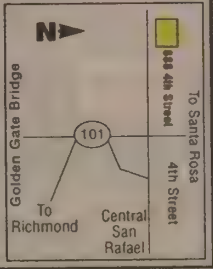

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P5-166/256K PCI (Intel Marl) ATX	$1,528
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P5-100/256K PCI (Intel Tucson) ATX	$1,308
P5-120/256K PCI (Intel Tucson) ATX	$1,328
P5-133/256K PCI (Intel Tucson) ATX	$1,378
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P5-150/256K PCI (Intel Endeavor)	$1,238
P5-166/256K PCI (Intel Endeavor)	$1,348
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P5-120/256K PCI (Intel Atlantis II)	$1,138
P5-133/256K PCI (Intel Atlantis II)	$1,188
P5-150/256K PCI (Intel Atlantis II)	$1,248
P5-166/256K PCI (Intel Atlantis II)	$1,358
P5-120/256K PCI (Intel Marl) ATX*	$1,138
P5-133/256K PCI (Intel Marl) ATX*	$1,188
P5-150/256K PCI (Intel Marl) ATX*	$1,248
P5-166/256K PCI (Intel Marl) ATX*	$1,348
P5-200/256K PCI (Intel Marl) ATX*	$1,478
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P5-120/256K PCI (Intel Zappa)	$788
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- 6-Speed CD-ROM
- Removable 1.44 Floppy Drive
- 2MB Display Memory
- Built-In Pointing Device
- 32-Bit PCI Bus
- Built-in Sound Card and Speaker
- NiMH Battery
- One Type III or Two Type II PCMCIA Slots
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P5-100	$1,808	$1,988	$2,408
P5-120	$1,828	$2,008	$2,428
P5-133	$1,878	$2,058	$2,478
P5-150	$1,938	$2,118	$2,538

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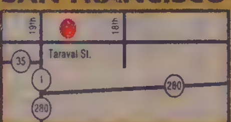

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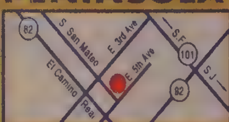

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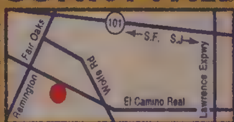

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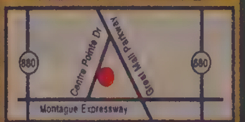

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Viewsonic 14ES	245
Viewsonic 15ES	325
Viewsonic 15G	340
Viewsonic 15GA	385
Viewsonic 17EA	560
Viewsonic 17GA	615
Viewsonic 17GS	580
Viewsonic 17PS	670
Viewsonic PT770	675
Viewsonic GT770	635
Viewsonic P810	1395
Viewsonic PT810	1545
Sony 15SX1	370
Sony 15SF2	425
Sony 17SF2	725
Sony 17SE2	910
Sony 20SFE	1530
Impression 3plus	w/OSD 215 new
Impression 5plus	w/OSD 297 new
Impression 7plus	w/OSD 480 new
Impression Vienna Pro17 w/OSD	691 new

KEYBOARDS

Mitsumi 104 key Win95	$15
ACE 104 key Win95 w/Palm Rest	15
Focus 8000 111 key Win95 w/Calculator	35
Focus 7200 107 key Win95 w/Track Ball	30
Focus 6200 107 key Win95	25
Lite-On 104 key Win95	20
Lite-On 6000/6000T w/Touch Pad	35/56

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Epson 1.44 FDD	20
Teac 1.44 FDD	25
Panasonic 1.44 FDD	20
NEC 1.44 FDD	20
Chinon 1.44 FDD	20
Sony 1.44 FDD	20

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HP 600C/680C	$225/230
HP 855CXI/1600C	475/1240
HP 5N/5L	1345/475
HP 4+/5	1030/1220
HP 5P/5M	815/1620
HP 5MP/5SIMX	975/3575
HP 4MV/4V	2580/1815
HP 5SI	2575

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HP 4C	$875
Artec 6000plus	350
Visioneer PaperPort	275

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Triton III VX P-166 w/256K.......$430 (while supplies last)

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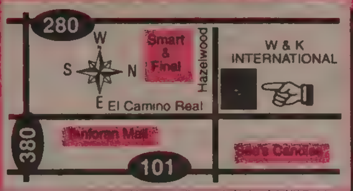

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Premiere Dual SCSI System with Intel Pentium® Pro Chip

- **Dual Pentium® Pro Processor (S) Motherboard**
- **Supports to 1GB RAM, EDO/ECC 72pin Simm**
- **5 PCI , 3 ISA Slots**
- **Plug & Play Compliant**
- **Intel 440FX Chipset**
- **Dual Pentium® Pro Processor (S) 150/180/200MHz**
- 512K Cache
- Intel Heat Sink & Cooling Fan/Alarm B/B
- **64MB 60ns EDO RAM up to 1GB**
- **Quantum Atlas 4.3GB Wide SCSI 8ms 7200rpm/1024KB**
- Adaptec 2940UW Ultra Wide PCI SCSI Controller
- 2 Hi-Speed (16550 Fast UARTs) Serials & 1 Enhanced Parallel
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- **MPEG, Video Accelerator & MGA Real-Time 3D Graphics Video Card**
- Keytronic 104 Windows 95 Keyboard
- Logitech Mouseman 3-Button PS-2 Mouse
- Deluxe File Server Full Size Tower w/Open Side Door 300W/UL
- **NEC SCSI 8X Speed 140ms 1200KB CD-ROM**
- Creative Lab Sound Blaster 32 PnP Stereo Sound Card
- **US Robotics Sportster 33.6 v.34 S/R Fax Modem**

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****Windows NT 4.0 Workstation/Server-Setup & Tested ....Add $165/Call**

NEW

New Power SCSI System with Intel Pentium® Pro Chip

- **Intel Advanced/VS Motherboard**
- **Intel/Ami Flash Bios, Zif Socket 8**
- **3 PCI , 3 ISA, 1 Shared Slot**
- Plug & Play Compliant
- **Intel 440FX Chipset**
- **Supports Pentium® Pro Processors 150/180/200MHz**
- 256K Cache
- Intel Heat Sink & Cooling Fan/Alarm B/B
- **32MB 60ns EDO RAM up to 128MB**
- **IBM 2.16GB Ultrastar Ultra Wide SCSI 8.5ms 5400rpm 512KB**
- **Adaptec 2940UW Ultra Wide PCI SCSI Controller**
- **2 Hi-Speed (16550 Fast UARTs) Serials & 1 Enhanced Parallel**
- Mitsumi 1.44MB 3.5″ Floppy Drive
- **Diamond Stealth 64 3D 4MB EDO RAM Screaming 64 Bit Graphics**
- **MPEG, Video Accelerator & MGA Real-Time 3D Graphics Video Card**
- **Viewsonic 17″ .25NI 1600x1200 66Hz Windows 95 Plug & Play Monitor**
- Keytronic 104 Windows 95 Keyboard
- Logitech Mouseman 3-Button PS-2 Mouse
- Deluxe ATX Form Medium Tower Case 235W Power Supply
- **Nec SCSI 8X Speed 140ms 1200KB CD-ROM**
- **Creative Lab Sound Blaster 32 PnP Stereo Sound Card**
- **Pontec 180W 2-Way Amp Speakers**
- **US Robotic Sportster 33.6 v.34 S/R Fax Modem**

Pentium® Pro Processor 200MHz	**$3910**
Pentium® Pro Processor 180MHz	**$3444**

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****Windows 95 w/CD & Manual ...Add $90**

NEW

Deluxe Pro System with Intel Pentium® Pro Chip

- **Intel Advanced/VS Motherboard**
- **Intel/Ami Flash Bios, Zif Socket 8**
- **3 PCI, 3 ISA, 1 Shared Slot**
- **Supports 150/180/200MHz CPU's**
- **Intel 440FX Chipset**
- **Supports Pentium® Pro Processors 150/180/200MHz**
- 256K Cache
- Intel Heat Sink & Cooling Fan/Alarm B/B
- **16MB 60ns 72 Pin RAM up to 128MB**
- **Quantum 2.5GB Enhanced IDE Hard Drive**
- 2 Hi-Speed (16550 Fast UARTs) Serials & 1 Enhanced Parallel
- Mitsumi 1.44MB 3.5″ Floppy Drive
- **Diamond Stealth 64 2MB RAM Screaming 64-Bit Graphics**
- **Princeton 17″ .28NI 1280X1024 65Hz Windows 95 Plug & Play Monitor**
- Keytronic 104 Windows 95 Keyboard
- **Logitech Mouseman 3-Button PS-2 Mouse**
- **Deluxe ATX Form Medium Tower Case 230w U1 CSA Power Supply**
- **Toshiba 5602B IDE 8X Speed 145ms 1200KB CD-ROM**
- **Yamaha OPL3 FM Synthesizer Stereo Sound Card**
- **Fly 120W 2-Way Amp Speakers**
- **US Robotics Sportster 33.6 v.34 S/R Fax Modem**
- **Cyber CD 10 Pak**
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Pentium® Pro Processor 180MHz	**$2412**

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****Windows 95 w/CD & Manual ...Add $90**

NEW

Deluxe ATX System Intel Pentium® Chip

- Intel Advanced/ML Motherboard
- Intel 430HX Chipset
- Pentium® Processor-Based ATX Board
- PC '95 Compliant Including Windows
- Supports Universal Serial Bus
- Supports75/90/100/120/133/150/166/200MHz Processor
- Pentium® Processor75/100/120/133/150/166/200MHz
- Heat Sink & Cooling Fan
- 256KB Pipeline Burst SRAM Cache
- 16MB 60ns EDO RAM up to 128MB
- Western Digital 2.5GB Enhanced IDE 10ms Hard Drive
- 2 Hi-Speed (16550 Fast UARTs) Serials & 1 Enhanced Parallel
- Mitsumi 1.44MB 3.5″ Floppy Drive
- Diamond Stealth 64 3D 2MB EDO RAM Screaming 64-Bit Graphics
- MPEG, Video Accelerator & MGA Real-Time 3D Graphics Video Card
- MAG 17″.26NI 1280x1024 60Hz Windows 95 Plug & Play Monitor
- Keytronic 104 Windows 95 Keyboard
- Logitech 2-Button Serial Mouse
- Deluxe ATX Form Medium Tower Case 230W UL CSA Power Supply
- Toshiba 5602B IDE 8X Speed 145ms 1200KB CD-ROM
- Creative Lab Sound Blaster 32 PnP Stereo Sound Card
- Pontec 180W 2-Way Amp Speakers
- Microsoft New Home CD Package
  Microsoft Encarta 96, Microsoft Works, Microsoft Money, Golf, Creative Writer, Explores The Solar System, CD Sampler
- Supra 33.6 v.34 w/Voice S/R Fax Modem
- Microsoft 95 w/CD & Manual

Pentium® Processor-200MHz	**$2582**
Pentium® Processor-166MHz	**$2396**
Pentium® Processor-150MHz	**$2287**
Pentium® Processor-133MHz	**$2223**
Pentium® Processor-120MHz	**$2164**
Pentium® Processor-100MHz	**$2150**
Pentium® Processor-75MHz	**$2105**

NEW

Value ATX System with Intel Pentium® Chip

- **Intel Advanced/MI Motherboard**
- **Intel 430HX Chipset**
- PC '95 Compliant Including Windows
- Supports Universal Serial Bus
- **Supports Pentium® Processors 75/90/100/120/133/150/166/200MHz**
- Pentium® Processor-75/100/120/133/150/166/200MHz
- 256KB Pipeline Burst SRAM Cache
- Heat sink & Cooling fan
- **16MB 60ns EDO RAM up to 128MB**
- **Quantum 1.2GB Enhanced IDE Hard Drive**
- 2 Hi-Speed (16550 Fast UARTs) Serials & 1 Enhanced Parallel
- Mitsumi 1.44MB 3.5″ Floppy Drive
- **Diamond Stealth 64 PCI 2MB DRAM Screaming 64-Bit Graphics**
- **Accelerator True 16 Million Colors**
- **Sony 15″.25NI 1280x1024 60Hz Windows 95 Plug & Play Monitor**
- **Qtronix 104 Windows 95 Keyboard w/Wrist Rest**
- **Logitech 2-Button Serial Mouse**
- **Deluxe ATX Form Medium Tower Case 230W U1 CSA Power Supply**
- ACER 787 IDE 8X Speed 185ms 1200KB CD-ROM
- Creative Lab 16-Bit Sound Card
- Fly 120W 2-Way Amp Speakers
- Cyber 10 CD Pak
  Grolier Encyclopedia 96, Al Unser Jr., Arcade Racing, Animals 2.0, Chess Master 4000 Turbo, World Atlas, Internet Online, Reference Library 3.0, Mavis Beacon Teaches Typing, US Atlas 5.0, Family Dictionary.
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Pentium® Processor-200MHz	**$2059**
Pentium® Processor-166MHz	**$1872**
Pentium® Processor-150MHz	**$1764**
Pentium® Processor-133MHz	**$1700**
Pentium® Processor-120MHz	**$1641**
Pentium® Processor-100MHz	**$1627**
Pentium® Processor-75MHz	**$1582**

NEW

Deluxe EIDE Multimedia System with Intel Pentium® Chip

- **Intel Advanced/TS Motherboard**
- **Intel TC430HX Chipset**
- **PC '95 Compliant Including Windows**
- **95 Ready Plug & Play**
- **Supports EDO Memory & New Pipeline Burst Cache**
- **Pentium® Processor-75/100/120/133/150/166/200MHz**
- Heat Sink & Cooling Fan
- 256KB Pipeline Burst SRAM Cache
- **16MB 60ns EDO RAM up to 128MB**
- **Western Digital 1.6GB Enhanced IDE 10ms Hard Drive**
- 2 Hi-Speed (16550 Fast UARTs) Serials & 1 Enhanced Parallel
- Mitsumi 1.44MB 3.5″ Floppy Drive
- **Diamond Stealth 64 PCI 2MB DRAM Screaming 64-Bit Graphics**
- Accelerator True 16 Million Colors
- Tech Media 15″.28NI 1024x768 60Hz Digital Monitor
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- Logitech 2-Button Serial Mouse
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- **Toshiba 5602B IDE 8X Speed 145ms 1200KB CD-ROM**
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Pentium® Processor-166MHz	**$1833**
Pentium® Processor-150MHz	**$1724**
Pentium® Processor-133MHz	**$1660**
Pentium® Processor-120MHz	**$1601**
Pentium® Processor-100MHz	**$1588**
Pentium® Processor-75MHz	**$1542**

NEW

New Family Multimedia System with Intel Pentium® Chip

- **Intel 430VX Chipset**
- **Pentium® Processor - 75/100/120/133/150/166/200MHz**
- **Heat Sink & Cooling Fan**
- **256KB Pipeline Burst SRAM Cache**
- 8MB 72-Pin RAM up to 128MB
- **Seagate 850MB IDE Hard Drive**
- Mitsumi 1.44MB 3.5″ Floppy Drive
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- **MGC 14″.28NI 1024x768 Monitor**
- Qtronix 104 Windows 95 Keyboard
- Qtronix Mouse
- Deluxe Mini Tower Case 230W Power Supply
- Acer 787 IDE 8X Speed 185ms 1200KB CD-ROM
- Sound Blaster Compatible Sound Card
- Pontech 60W 2-Way Amp Speakers
- **Cyber CD 10 Pak**
  Grolier Encyclopedia 96, Al Unser Jr. Arcade Racing, Animals 2.0, Chess Master 4000 Turbo, World Atlas, Internet Online, Reference Library 3.0, Mavis Beacon Teaches Typing, US Atlas 5.0, Family Dictionary.
- **Supra 33.6 v.34 w/Voice S/R Fax Modem**
- **Microsoft 95 w/CD & Manual**

Pentium® Processor 200MHz	**$1583**
Pentium® Processor 166MHz	**$1397**
Pentium® Processor 150MHz	**$1288**
Pentium® Processor 133MHz	**$1224**
Pentium® Processor 120MHz	**$1165**
Pentium® Processor 100MHz	**$1151**
Pentium® Processor 75MHz	**$1106**

NEW

Cyrix 6x86 Multimedia System

- **Intel 430VX Chipset**
- **Cyrix 6x86-P120/130/155/166MHz CPU**
- Heat Sink & Cooling Fan
- 256KB Pipeline Burst SRAM Cache
- 16MB 60ns EDO RAM up to 128MB
- **Fujitsu 1.7GB IDE Hard Drive 10ms**
- Mitsumi 1.44mb 3.5″ Floppy Drive
- **Spider w/MPEG PCI 2MB DRAM Screaming 64-Bit Graphics**
- **Princeton 17″.28NI 1280x1024 Plug & Play Monitor**
- Qtronix 104 Windows 95 Keyboard
- Qtronix Mouse
- **Deluxe Mid Tower Case 230W Power Supply**
- **SMS 10X 170ms 1450KB CD-ROM**
- Sound Blaster Compatible 16-Bit Sound Card
- Pontech 60W 2-Way Amp Speakers
- **Cyber 10 CD Pak**

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- **Supra 33.6 v.34 w/Voice S/R Fax Modem**
- **Microsoft 95 w/CD & Manual**

Cyrix 6x86-P166	$1866
Cyrix 6x86-P150	$1757
Cyrix 6x86-P133	$1693
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run under Windows. It can be used for time and billing, for identifying mis-use of company systems, for counting the number of concurrent users for site-licensing, and for ergonomic consideration. The program tracks computer use by project, program name, caption of the active window, start time, elapsed time, keystrokes, mouse travel, and mouse clicks. For network users, Win What Where also tracks user name and workstation ID. Win What Where 96 is available for Windows 3.1, Windows NT, and Windows 95. ($100) WinWhatWhere Corp., 925 W. Kennewick Ave., Kennewick, WA 99336. (509)585-9293. URL: *http://www.winwhatwhere.com* .

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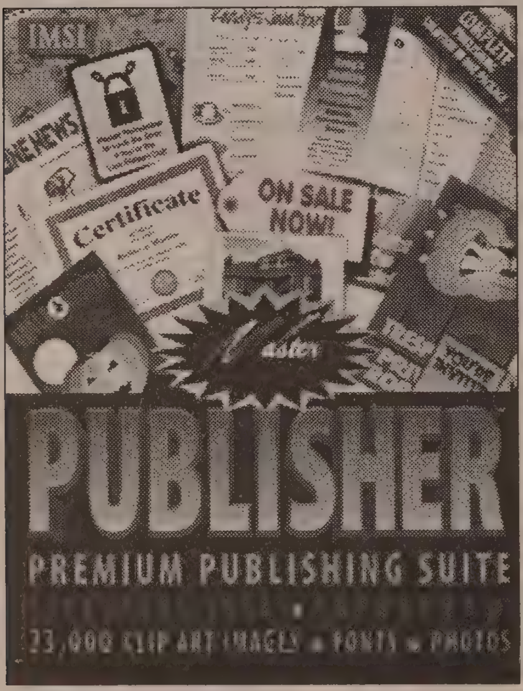

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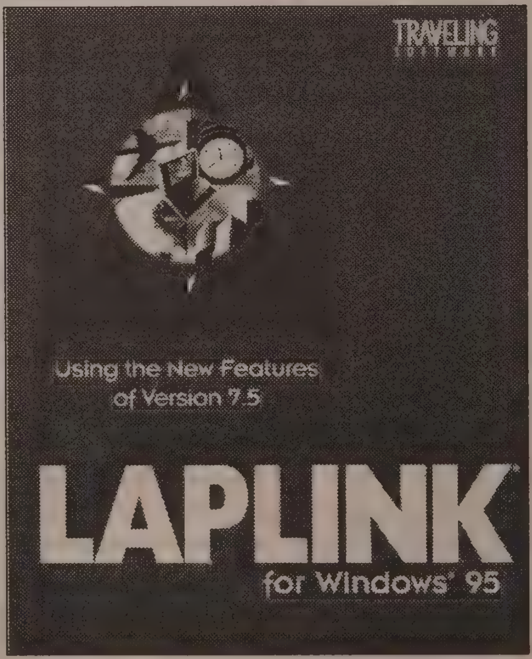
My Own Screen Saver

My Own Screen Saver is a custom screen saver creator that allows individuals and businesses to create their own screen savers using their own images and the program's custom visual effects. The program requires no knowledge of programming and supports sixteen popular graphics file formats. It provides thirty-two different visual effects that can be used with your personal images, as well as providing control over transition speed and screen change intervals. ($20) Gulf Coast Software Corp., P.O. Box 2294, Sugar Land, TX 77487-2294. 1-800-928-8679. URL: *http://www.gcsoftware.com* .

LapLink for Windows 95 v7.5



Version 7.5 of LapLink for Windows 95 features Xchange Agent technology, improved remote control, and up to 30% faster file transfers. LapLink's new Xchange Agent enables users to synchronize one, or many, folders automatically. Its easy-to-use wizard setup, drag-and-drop editing, and integrated preview make it quick and easy to keep information up-to-date. In addition, Xchange Agent integrates with Microsoft's System Agent scheduling feature to allow users to schedule unattended file synchronizations. Additional new features include data encryption, screen resolution matching, safe delete, and remote clipboard support. ($149; v7.0 users upgrade, $29.95; users of other Traveling Software products can upgrade for $69.95) Traveling Software, Inc., 18702 N. Creek Pkwy., Bothell, WA 98011. (206)483-8088, 1-800-343-8080. URL: *http://www.travsoft.com* .

Explorer Plus

The missing link for today's most popular desktop applications
Softscape
Explorer Plus
The most complete file management system for your desktop

Explorer Plus desktop information management software combines search, retrieval universal viewing, and publishing capabilities with object-based file management. Users of Web authoring tools and office suites can maintain individual desktop management systems using the information contained in personal files as well as corporate networked files. Its QuickFind feature, based on Verity's Topicfull text searching system, uses natural language commands to search 1GB of data in less than one second. Explorer Plus dynamically publishes over seventy-nine different native file formats to HTML and runs on Windows 95

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- PCI VGA Card w/1MB
- 101 Keyboard
- Mini Tower Case
- Windows 95
- Serial Mouse w/Pad
- 8X CD-ROM Drive
- 16-Bit Sound Card
- Stereo Speakers

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166MHz	$1575
200MHz	$1750

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- Teac 1.44MB 3.5" Floppy Drive
- 1.2GB IDE Hard Drive
- Local Bus IDE Controller
- 14" SVGA Monitor .28dp NI
- Local Bus Video Card w/1MB
- 101 Keyboard
- Mini Tower Case
- Windows 95
- Serial Mouse w/Pad
- 8X CD-ROM Drive
- 16-Bit Sound Card
- Stereo Speakers

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NCL 538 Controller	$50
NCL 539 Controller	$50
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Trident VLB SVGA w/1MB	$85
Trident PCI w/1MB	$75
Diamond Stealth PCI w/1MB	$105
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Midi Kit	$49

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Chicony Ergonomic Keyboard	$49
Chicony KB5181 Click Keyboard	$38
Focus 2001 Click Keyboard	$40
Keytronic Keyboard	$38

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100MHz Pentium® Processor w/256K Cache	$Call
120MHz Pentium® Processor w/256K Cache	$Call
133MHz Pentium® Processor w/256K Cache	$Call
150MHz Pentium® Processor w/256K Cache	$Call
166MHz Pentium® Processor w/256K Cache	$Call

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M1636TAU 1.2GB IDE	$195
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MAXTOR	
71336A 1.3GB IDE	$195
71626A 1.6GB IDE	$225
72004A 2.0GB IDE	$265
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ST31621A 1.6GB IDE	$225
ST32140A 2.0GB IDE	$265
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AC32500 2.5GB IDE	$309
AC33100 3.1GB IDE	$359

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HP Colorado DT1400 1.36GB	$199
CNR TSM1700R 1.7GB	$209
CNR TST3200R 3.2GB	$225

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Mouse Systems A3 Mouse for Mac	$50
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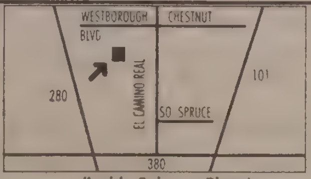


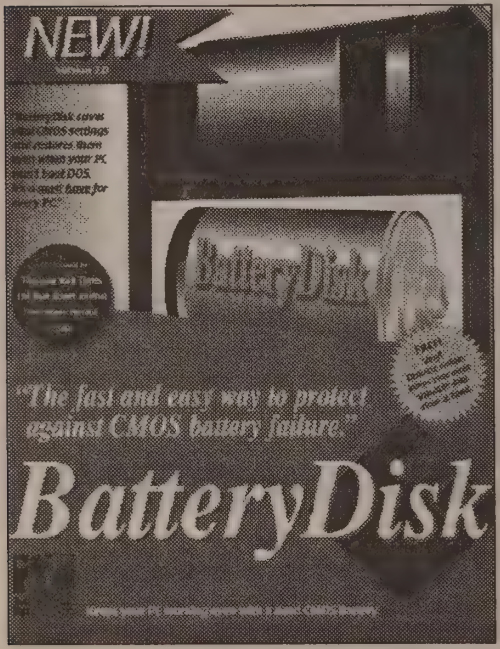
(Inside Fairway Plaza)

or Windows NT. ($129) Softscape, Inc., 4 Minot Ave., Acton, MA 01720-4507. 1-800-881-2546. URL: *http://www.softscape.com* .

Video Express Viewer 1.0

Video Express Viewer is an all-in-one video playback utility for Windows 3.1, Windows NT, and Windows 95. In addition to support for every important video file format, the 32-bit installation of Video Express Viewer also offers video streaming for accessing video or audio broadcasts over the Internet and across company intranets. It can be used as a helper application for your favorite Internet browser, as a standalone application, or as an associated application under the Windows File Manager. Designed to resemble a TV remote control, its interface is easy to learn and use. ($39.95) ImageMind Software, Inc., 5 Triad Center, Ste. 600, Salt Lake City, UT 84180. 1-800-321-5933. URL: *http://www. imagemind.com* .

BatteryDisk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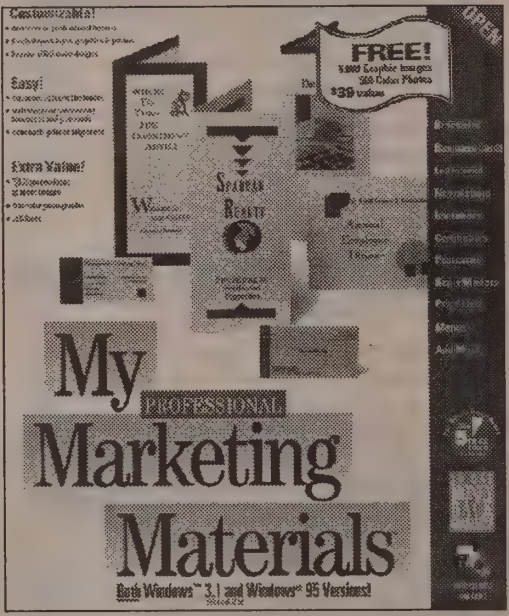
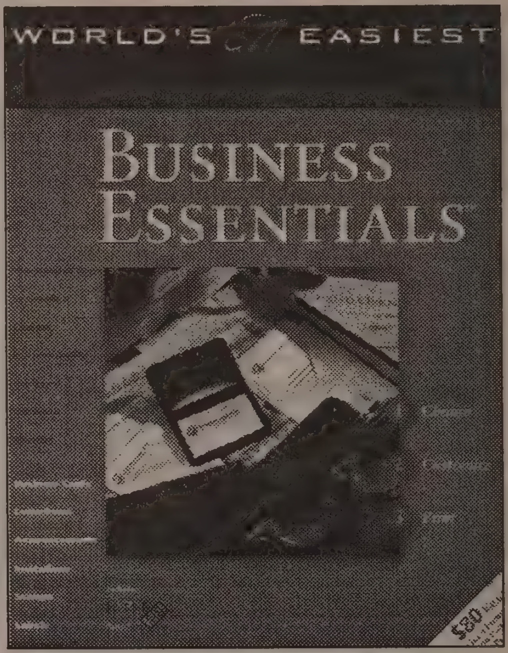
BatteryDisk copies your CMOS settings to a floppy disk, allowing you to restore those settings should something happen. While originally created to solve the problem of failing CMOS batteries in older PCs, newer computers running Windows 95 are also at risk. By running BatteryDisk before changing any system configurations, you can restore CMOS settings quickly, easily, and accurately. To make sure each BatteryDisk stays with the correct computer, each copy is uniquely serialized. It also comes with a vinyl diskette holder with an adhesive backing that you can affix to the computer. The serial number as well as instructions on how to restore the CMOS settings are printed on this holder. It works on AT class PC with 286 or newer processors. ($19.95) International Systems, Inc., 351 W. Hubbard St., Ste. 501, Chicago, IL 60610. (312)222-1364, 1-800-248-4217.

My Professional Marketing Materials



Designed for owners of color printers who want to customize their marketing materials, MyProfessionalMarketingMaterials allows small business users to choose from more than 500 background designs to create brochures, business cards, newsletters, postcards, flyers, and more. The software contains more than 200 JumpStarts, complete but fully customizable templates for marketing materials. In addition, materials can be enhanced with any of the 5,500 graphic images and color photographics included in the clip art gallery. For Windows 3.1 and Windows 95, it comes on both CD-ROM and disks. ($79.95) MySoftware Company, 2197 E. Bayshore Rd., Palo Alto, CA 94303-3219. (415)473-3600. URL: *http://www. mysoftware.com/* .

World's Easiest Business Essentials



World's Easiest software provides hundreds of coordinated professional designs, with a push-button approach that allows businesses to easily customize and print business cards, letterhead, envelopes, announcements, invitations, certificates, and more. Most items can be printed on your printer. But, World's Easiest also has a unique online link to the Deluxe Corp. printing services, so you can print on high quality paper; use raised and colored inks' create items such as memo pads, labels, and pre-inked stamps; and larger quantities than are practical on a desktop printer. Four design packages are available individually—Business Essentials, Business Cards, Promotions & Events, and Certificates—or bundled together with stamp and label options. (Bundle, $39.95; Single titles, $19.95)Deluxe Corp., 654 Bair Island Rd., Ste. 104, Redwood City, CA 94063. (415)568-3000, 1-800-730-EASY. URL: *http://www.easiest.com* .

Symantec PC Handyman

Symantec Corporation has released PC Handyman, a user-friendly program that solves both Windows 95 hardware and software programs. PC Handyman lets computer users prevent and correct common PC hardware/soft-

continued on page 260

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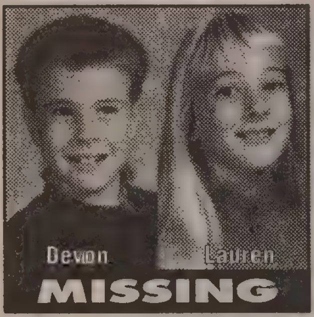

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Date Missing: 11/17/93
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(So)HoHoHo

continued from page 22

II: The Hidden Empire" (itself a two-disk game), "Dark Forces," and "Tie Fighter." The final disk, called "Making Magic," gives a multimedia presentation about the creation of the Star Wars series of films.

Lucas is the visual genius of our times. He has not only created the mythology of the Star Wars series (and may the Force be with him for that) but his studios have worked on half of the major motion pictures of the last twenty years. So a chance to gather many of his titles at once is an opportunity indeed. Alas, most of these games do not collaborate well with Windows 95. In most cases, even with a big machine, they will force you to quit Windows and run them in DOS mode. These are not for casual play, but you could save the galaxy.

Well, Lucas Arts also has something for you. They have repackaged their classic games about Star Wars into a single multidisk set. You can have them all for under fifty-five dollars.

IMSI Premium Publishing Suite

Face it: your kids are geniuses. You told yourself, when you bought the computer for the Schmidt household, that one reason you were doing it was for the children. And you have been using it full-time ever since. Shame.

Every child needs a personal publisher, because every child wants to make signs and newsletters and certificates and wall posters and all of that stuff. You sympathize, but desktop publishing software is just so expensive. Perhaps now you can make it up to them.

IMSI is shipping the Premium Publishing Suite. Its centerpiece is TurboPublisher. This is desktop publishing software which accommodates the absolute novice without insulting the experienced user. The very first time I used it, for example, I had to design an exhibit for an arbitration. Not a trivial task. TurboPublisher helped me along with its set of wizards (IMSI calls them "pilots") to assist with each of the many tools that come with the program. It has everything that a budding Vladimir Ilyich Schmidt or Rosa Luxemburg Schmidt could want to begin pamphleteering at once.

Included also is TurboDraw. This is an beginner's drawing program that will let Julia Morgan Schmidt start her architectural career. It has a full set of vector-based drawing tools. It also has a set of pilots that allow you to zoom through the creation of common objects. Young Hallmark Schmidt will be able to design a greeting card in 40 seconds, as I did, with the Greeting Card Pilot.

The Suite has 2000 fonts. Many of them are handwriting fonts, so plucky performance artist Graffita Schmidt will be able to mass-produce her work on sticky-labels. It has lots and lots of clip art in scaleable Windows Metafile format—20,000 images in all—and 1000 photos as well. Finally, there are printed manuals, a rarity in a time when most companies are saving money by putting their manuals onto the CD with the software.

Do not think that because children can use it that this is not an

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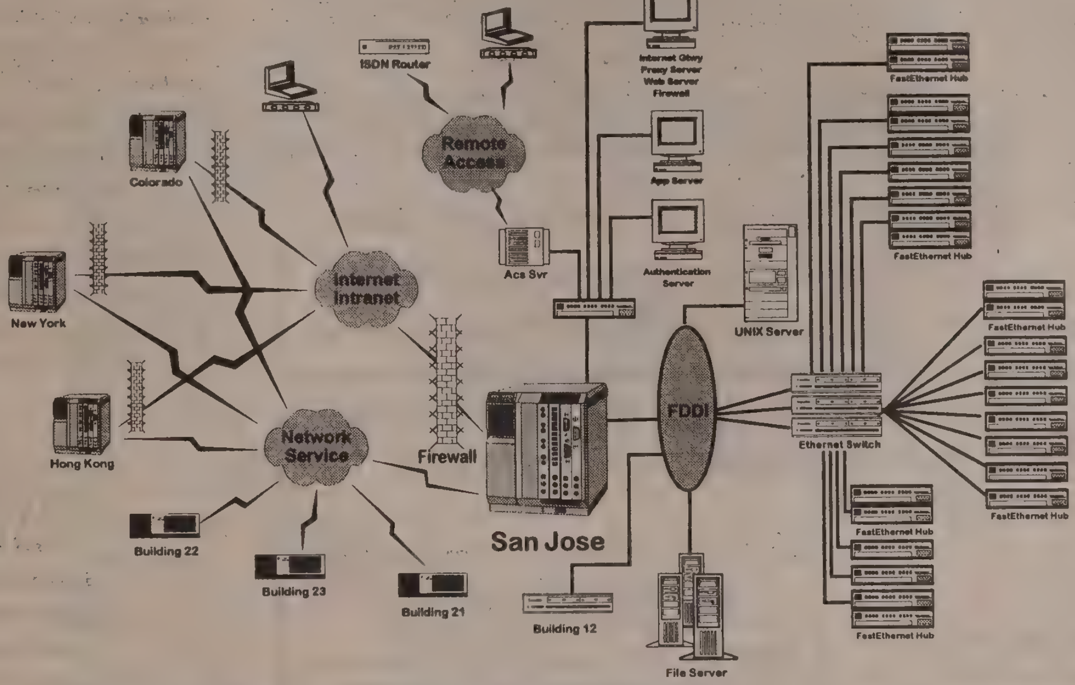
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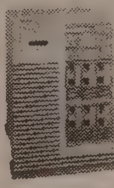

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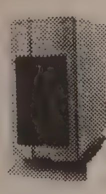

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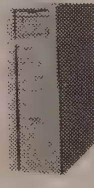

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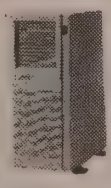

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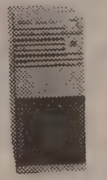

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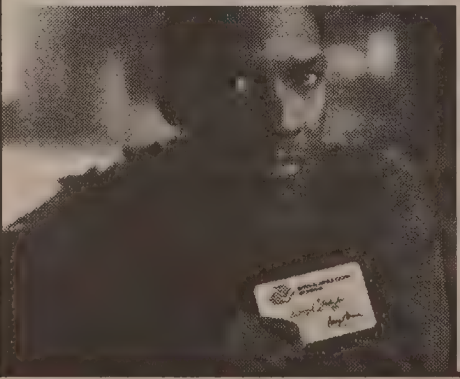

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(So)HoHoHo *continued...*

adult tool. Of the many things that flow through my evaluation system, there are few that I keep or pass on to close friends. This may be one. It is rare to find so much value packed in one box, for the price. Oh, yes—the price. Silas Marner Schmidt will like it—the whole package costs only $29.95. I don't know how they did it, but that is the cost. Perhaps Lucretia Borgia Schmidt put a drop of something in the Accounting Department's tea. Run—don't walk—to get this one before they recover. And Merry Christmas to all. ■

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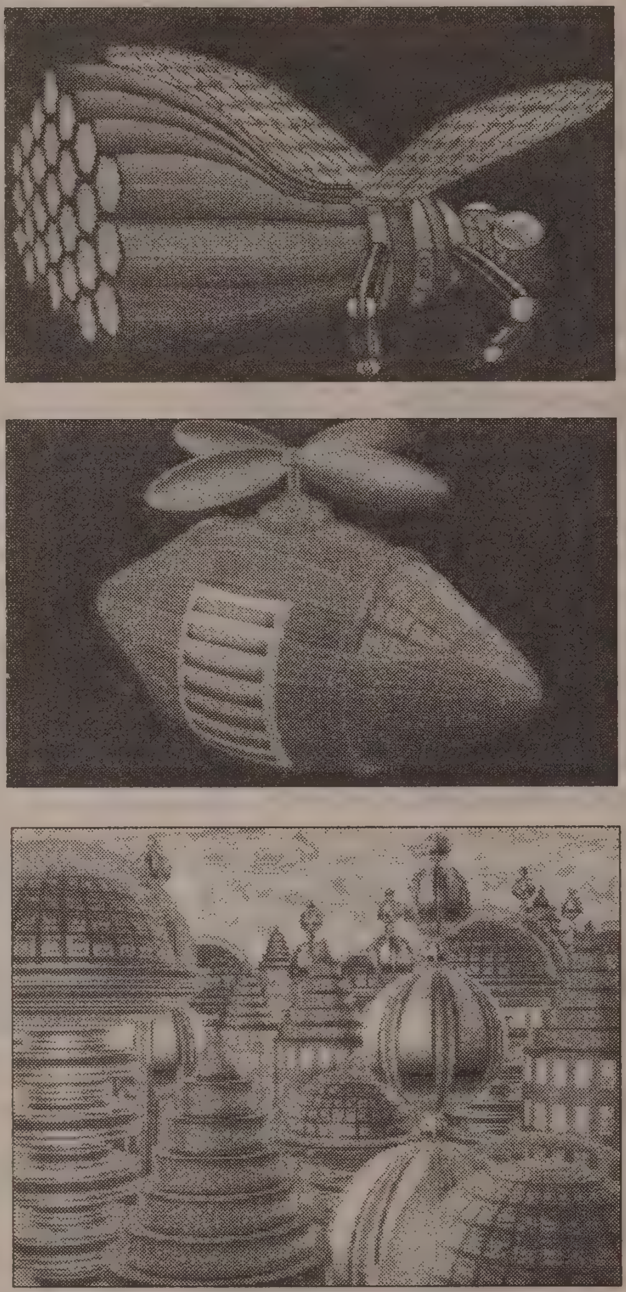
Shareware '96 Roundup

continued from page 33

LavaMind. Currently they offer Gazillionaire, Gazillionaire Deluxe, and Zapitalism—intergalactic odysseys that let you wheel-and-deal across various planets and galaxies.

All of LavaMind's games are well-spiced with impressive, colorful graphics. In Gazillionaire you can play with up to six computer and five human opponents in a race to build a trade empire among the planets of the Kukubia system. Gazillionaire Deluxe is a sequel to the first game; it allows players to customize their own solar systems, set competitive intelligence levels for computer opponents and play by email over the Internet. You set out to make your fortune against a phantasmagoric background of Monty Python-like aliens and exotic geographic locations. Like a Ferengi merchant on Star Trek, you need to keep abreast of weekly news bulletins that inform you of attacks by local pirates, local religious festivals, and sudden fluctuations in the interplanetary economy.



Top to bottom: Gazillionaire

The Gazillionaire Hints & Strategies Guide comes on a 3.5" HD floppy disk. It is an interactive program, which gives you various tips, suggestions and strategies for playing Gazillionaire (the original version). A shareware version of Gazillionaire Deluxe is available for download at LavaMind's Web site.

Zapitalism is the third LavaMind exotic strategy game, which takes place on a single world called Mermadan. It features a search for sunken treasure, encounters with a thieves guild, and diplomacy, as the player must set up a business buying and selling everything from imported lumber fish to mamo vapor. The first mega store to dominate the market by reaching a cash value of 100 million zables wins the game.

Zapitalism can also be played by email.

These games all require a 2X CD-ROM and 486 DX 33MHz PC. For more information (and sample graphics) you can visit *http://www.lava mind.com*. ■

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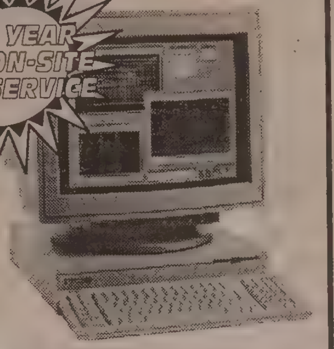

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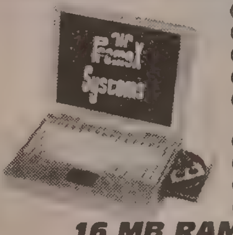

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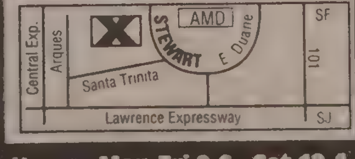

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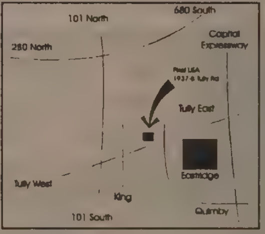

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External Half-Height SCSI Case (3.5") with 40 Watts	$58
External Half-Height SCSI Case (5.2.5") with 40 Watts	$58
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External SCSI Case for (8) 5.2.5" with 250 Watts	$228
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Super File Full Tower Case + 300 watts P.S (w/ 4 Wheels)	$158
Diablo DeskTop AT Case + 250 watts P.S (Quite Fan)	$88
Diablo Super Mini Tower Case + 250 watts P.S (Quite Fan)	$88
Diablo Super Full Tower Case + 250 watts P.S (Quite Fan)	$118
Other	$ Call

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Modem & Fax 14.4 (internal)	$18
Modem & Fax 28.8 V.34 (internal)	$58
Modem & Fax 33.6 V.34 (internal)	$78
Supra Express 28.8 V.34 w/ Voice P&P (internal)	$88

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Sporter Modem VI & Fax 33.6 V.34 w/ Voice (OEM Version)	$138
Sporter Modem VI & Fax 33.6 V.34 w/ Voice (Internal)	$153
Sporter Modem VI & Fax 33.6 V.34 w/ Voice (External)	$183

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LOGITECH

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3 Buttons Serial	$13
First Mouse Serial	$13
Dexxa Serial	$13
MouseMan Serial	$18
TrackMan Vista Serial	$38
TrackMan Combo Serial (Retail Box)	$58
CyberMan 3D Controller (Retail Box)	$48
TrackMan Marble (Retail Box)	$88
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WingMan Joystick (Retail Box)	$18
WingMan Joystick Extreme (Retail Box)	$38

Microsoft

Microsoft Natural Keyboard	$68
Microsoft Serial Mouse (Ergonomic)	$23
Microsoft PS-2 Mouse (Ergonomic)	$28
MS-DOS 6.22 (Disketts & Manual)	$35
Windows 3.11 (Disketts & Manual)	$45
Windows 3.11 FWG (Disketts & Manual)	$55
Windows 95 on CD (CD & Manual)	$88
Microsoft Office 95 Professional on CD	$198
Microsoft Windows NT 4.0 Workstation	$178

………All Microsoft Products sell with the system only .

ACCESSORIES

Conner 800Mb Tape Back-up w/ Tape (Retail Box)	$118
Conner 1.7GB Tape Back-up w/ Tape (Retail Box)	$188
Conner 3.2GB Tape Back-up w/ Tape (Retail Box)	$218
HP Colorado T1000	$128
Speakers 4 Watts	$3
Speakers 25 Watts	$18
Speakers 100 Watts	$38
Speakers 260 Watts	$53
Speakers 300 Watts	$58
Yamaha YST-M7 (5 Watts per channels)	$38
Yamaha YST-M15 (10 Watts per channels)	$73
Yamaha Subwofer	$108

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CREATIVE LABS, INC.

Sound Blaster 16 P&P (OEM)	$63
Sound Blaster 32 P&P (OEM)	$108
Sound Blaster Value IDE 32 P & P (Retail Box)	$138
Sound Blaster Value IDE AWE32 P & P (Retail Box)	$218
Sound Blaster Discovery CD 8X (Retail Box)	$258
Sound Blaster Performance 8X (Retail Box)	$308

KEYBOARDS

Mitsumi 104 Enhanced Keys	$13
Keytronic 104 Enhanced Keys (Windows 95)	$23
MNB 104 Click Enhanced Keyboard	$38
Liteon SK-6000 w/ Touch Pad	$58

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Pixel USA

(408) 929-7218

1937-B Tully Road, San Jose, CA 95122
Fax: (408) 929-7244

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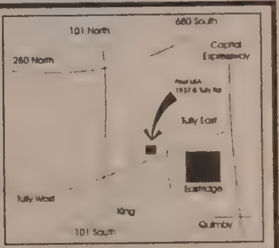
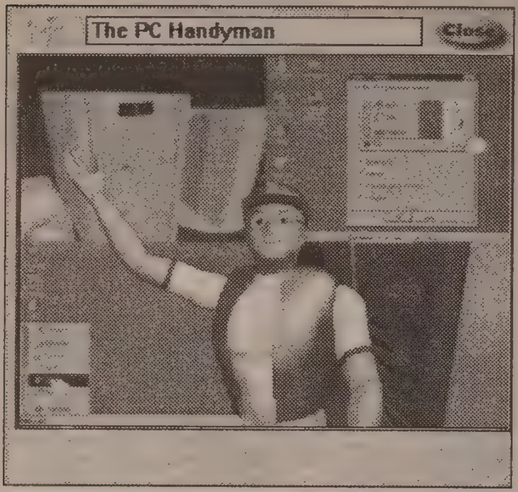


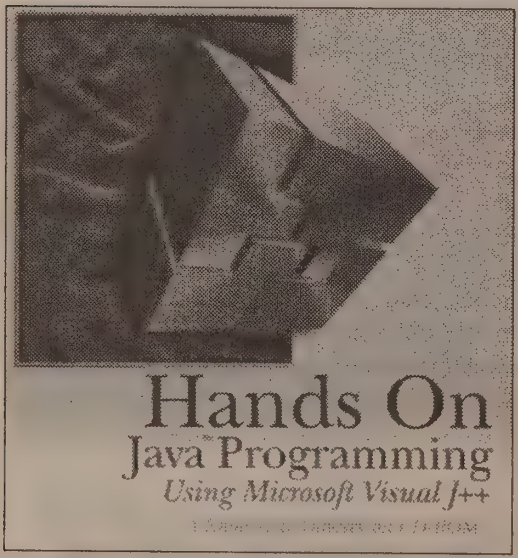
Prices subject to daily fluctuation. Please Call for latest price. Not responsible for typos. Cash discount applies to currency only (not checks, money order or credit cards).

Product Announcements *continued from page 250*



ware problems by providing solutions to over 20,000 potential problems in three forms: automated repair, instructional video clips and instructional text. From printer hook-up complications to changing the desktop icons to serious hard drive problems, PC Handyman addresses the frustrations many first-time PC owners are experiencing using Windows 95. The application runs constantly in the background, alerting users to problems and fixing them as they happen. The program can also be called up to answer specific questions. Symantec Corp., 10201 Torre Ave., Cupertino, CA 95014. 1-800-441-7234. URL: *http://www.symantec.com/PressCenter*.

Hands On Java Programming Using Microsoft Visual J++



Following close behind the release of Microsoft Visual J++ 1.0, this CD-ROM offers hands-on exercises focusing on buttons, menus, the Dialog Editor, Java Resource Wizard, debugger, text editor, project organization, and other features. Examples explain in detail how Visual J++ supports user interfaces, threads, animations, as well as how to use and integrated ActiveX controls with Java. ($39.95) MindQ Publishing, Inc., 450 Springpark Pl., #1200, Herndon, VA 22070-5243. 1-800-323-4560. URL: *http://www.mindq.com*.

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DeLorme Tripmate/ Street Atlas USA 4.0

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601
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985
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Tripmate
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DeLorme has introduced Tripmate Hyperformance GPS Navigation. Tripmate, which uses the satellite navigation technology of the Global Positioning System (GPS), is the first GPS receiver designed to link directly to portable PCs, showing users their location on DeLorme's detailed Street Atlas USA 4.0 or AAA Map' n' Go mapping software. Tripmate is a twelve-channel GPS receiver, compared to many GPS receivers currently on the market which have only one to four channels. Arrows indicate a user's position on an onscreen map and move as the user travels. Tripmate will be sold for $149, including Street Atlas USA 4.0. DeLorme, Inc., Lower Main St., P.O. Box 298, Freeport, ME 04032. 1-800-452-5931, or URL: *http://www.delorme.com*.

DeLorme 3-D Explorer USA

DeLorme has released 3-D Explorer USA, a 3-D version of DeLorme's well-known mapping software that was developed using real elevation information from the US Geographical Survey. With the software, a Windows 95 user can take an aerial tour of the USA via keyboard, mouse or joystick, choosing elevation, speed or direction of travel. The program features the ability to record a 3-D trip and play it back; adjustment of light settings to reflect different times of day; placename displays of major points of interest/cities; and a placename search function. DeLorme. Inc., Lower Main St., P.O. Box 298, Freeport, ME 04032. 1-800-452-5931, or URL: *http://www.delorme.com*.

Fundraising Over The Internet *continued from page 64*

RESOURCES:

Strathmore Press
2550 Ninth St., Ste. 103
Berkeley, CA 94710
(510)843-8888
info@strathmoor.com

Strathmore Press has published *Fundraising on the Internet*, edited by Nick Allen, Mal Warwick, and Michael Stein. The book is a valuable resource for information about what nonprofits are doing online, how effective it is, and what Internet tools to use. To order, call toll free: 1-800-217-7377. $24.95 plus $4.50 shipping (CA residents also add 8.25% sales tax).

On Friday, January 17, 1997, the Institute for Global Communications, Mal Warwick & Associates, and Media Alliance will host a full day workshop in San Francisco on how to raise money by email and over the Web. To register or for further information, call toll-free 1-888-225-5625 or (510) 843-8888, or see *http://fundraising.igc.org* .

Institute for Global Communications
Presidio Building 1012
Torney Ave., Box 29904
San Francisco, CA 94129-0904
(415)561-6100
automatic information reply:
igc-info@igc.org
outreach@igc.org
URL: *http://www.igc.org*

IGC provides Internet accounts, web publishing space, training and support, and consulting services to progressive nonprofits.

Mal Warwick & Associates, Inc.
2550 Ninth St., Ste. 103
Berkeley, CA 94710-2516
(510)843-8888
info@malwarwick.com

Mal Warwick & Associates is a fundraising and marketing company.

The following organizations' Web sites were mentioned in the article:

American Civil Liberties Union
132 West 43rd St.
New York, NY 10036
(212)944-9800
aclu@aclu.org
URL: *http://www.aclu.org*

International Rivers Network
1847 Berkeley Way
Berkeley, CA 94703
(510)848-1155
irn@irn.org
URL: *http://www.irn.org*

Rainforest Action Network
450 Sansome St., Ste. 700
San Francisco, CA 94111
(415)398-4404
automatic information reply:
ran-info@ran.org
rainforest@ran.org
URL: *http://www.ran.org*

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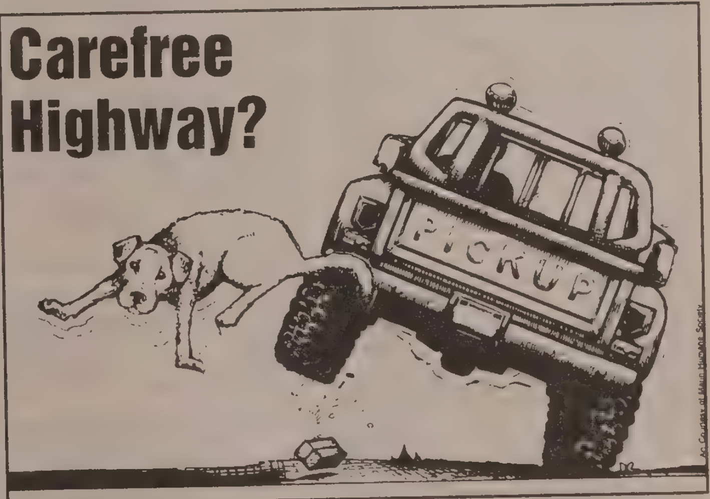

Dogs are in great danger when they ride in the back of an open truck bed. If you hit a bump, swerve to avoid an obstacle, or brake suddenly, the dog could easily fly out. If the fall doesn't injure or kill the dog, it is likely that another car will. Carrying dogs in pick-ups poses a threat to both the animal and other motorists.

Simply tying a dog in the truck bed is not enough. Ropes and leashes become nooses. And if the wind whipping through the dog's ears is full of dirt, debris, and gravel they can lodge in the dogs eyes, nose, or ears and cause serious damage.

The Humane Society of the United States
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- Medium Tower Case 250-Watt PS
- 3COM 3C509 Ethernet Card
- 8 Speed CD ROM
- Microsoft Window NT 4.0 server
- With 5 Client Licsence
- Logitech Mouseman II

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- 8X CD ROM
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- Microsoft NT 4.0 Workstation
- 16 Bit Ethernet Combo Card
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- 1.2GB EIDE HD
- Diamond PCI w/1MB SVGA
- 14" .28dp N/I SVGA Monitor
- 8X CD ROM
- 104-Key Keyboard
- Mini Tower Case
- 230-Watt Power Supply
- Microsoft Windows 95
- Mouse

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•TO Pentium 150	$135
•TO Pentium 166	$240

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- Sound Blaster 16 Sound Card
- 1.2 GB IDE HD
- Diamond w/1MB PCI SVGA
- 15" .28dp N/I SVGA Monitor
- 8 Speed CD ROM
- Mitsumi 104-key Keyboard
- Mini Tower Case & 230 Watt PS
- Microsoft Windows 95
- Logitech Mouseman II
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•TO Pentium 150	$135
•TO Pentium 166	$240
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2X32(8MB 72 pin NON-parity) 60ns	$38
4x36 (16MB 72 pin parity) 60ns	$105
4X32(16MB 72pin NON-parity) 60ns	$85
8X36(32MB 72 pin parity) 60ns	$198
8X32(32MB 72 pin NON -parity) 60ns	$168
EDO 1X32(4MB) /2X32 (8MB) 60ns72pin	$20/$40
EDO 4X32(16MB)/8X32(32MB)72pin 60ns	$80/$159
AMD CPU	
486 DX4-100/120/133 3.3V	$32/$36/$38
K5-P75/P90/P100	**$44/$59/$79**
K5-P120 / K5-P133	**$126/$155**
CYRIX CPU	
5x86 100 3.3V	$49
5x86 120 3.3V	$59
6x86 P120+/ P133+	$110/$110
6x86 P150+/ P166+	$122/$175
INTEL CPU	
486 DX2 -66 5V	$49
486 DX4 -100 3.3V	$59
Pentium 75/100	$120/$150
Pentium 120/133	$170/$225
Pentium 150/166	$289/$395
Pentium 200	$599
Pentium Pro 150	***$289***
Pentium Pro180/Pro200	$539/$979
DIMM	
1x64 (8MB)	$69
2x64 (16MB)	$98
4x64 (32MB)	$209
8X64 (64MB)	$449

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ADAPTEC	
1510 SCSI-2/1522(5MB/s)	$58/$70
1542CP/1542CPK(SCSI-2 10MB/s)	$163/$235
2940(10MB/s)/2940UW(40MB/s) PCI	$177/$215
3940(10MB/sec)/3940W(20MB/sec)	$299/$469
APA1460 Slim PCMCIA SCSI	$159
ASW-EZ SCSI 4.0 for Windows 95	$65
APA-348 Parallel To SCSI	$89
ASUS	
AS7870 PCI SCSI-2 w/Creative Lab Sound	$204
BUSLOGIC	
KT-545C ISA Fast SCSI-2 w. Kit 10MB/s	$179
KT-930 PCI SCSI-2 w/Win 95 Driver	$129
KT-946C PCI Fast SCSI-2 w. Kit 10MB/s	$174
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EIDE Max ISA W/O IO	$25
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12x Multimedia Kit	$395
MITSUMI	
FX810T 8X IDE 1200kb/s Int	$99
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NEC	
CDR-C251 4X , IDE 4CD Changer Int	$115
CDR-C302 4X SCSI-2, 7CD Changer Ext	$309
CDR-222 8X SCSI-2	$198
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PLEXTOR	
PX-43CH 4X, 1600ms, 600Kb/s, 256K	$229
PX-63CS 6X,145ms, 900Kb/s, 256K	$249
PX-83CS 8X, 110ms, 1200Kb/s, 256K	$290
SONY	
CSD-76S 4X SCSI-2	$94
CDU-311 8X IDE,Int	$99
TEAC	
CD-56S 6X SCSI	$154
CD-58E 8X IDE (125ms, 1.2MB, 128KB Buffer)	**$99**
12x EIDE	$189
TOSHIBA	
5401B 4.5x SCSI, 170ms, 675Kb/s, 256k	$111
3701B 6.7X SCSI-2, 120ms, 1000Kb/s, 256K	$205
5602 8X IDE, 1200Kb/s, 256K	$104
12x IDE	$199

CD - Writer

HP	
Sure Store C4324A, read 4X write 2X	$795
HP Writable CD 74 min. / 5-Pack	$10/$47
PANASONIC	
Power Drive (4X read, 2X write)Int/Ext	$479/609
PHILIPS	
CDD2000/10 2x write 4x read, Int.Dr only	$659
CDD2000/12 2x write 4x read, Int.w/kit	$789
CDD2000/20 Ext w/kit	$919
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Yamaha	
CDR-100 4X(read&write) Internal Dr only	**$789**
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P/I-P55TVP4 3ISA 4PCI Intel Triton 430 VX, 256K PB, EIDE, & HI Speed I/O 75-200MHZ	$149
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P/E-P55T2P4D Dual Pentium 4EISA/4PCI 256K PB EIDE & HI Speed IO 75-200MHZ	$599
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Venus Pentium Pro W/ EIDE, Hi Speed IO, Natoma Chipset, Pro150-200	$275
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Pentium Triton VX Chipset w/256K PB EIDE& Hi Speed I/O, P75-P200	$125
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P6DOF Dual Pentium Pro EIDE & HS I/O	$679

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DEXXA JOYSTICK	
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Accura 144+ Int/Ext	$77/$91
Accura 288 V.34 Int/Ext	$143/$159
Optima 288 V.34 Int/Ext	$348/$360
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PCMCIA XJ1144 Fax (MNP5)	$157
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PCMCIA XJ2288	$232
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Sportster VI 28.8 Ext W/ Voice	***$119***
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- 32MB EDO RAM 60ns
- 1.44 MB Floppy Drive
- 32 Bit PCI IDE With HI Speed IO
- 1.6GB EIDE HD
- Diamond Stealth Video-VRAM 2MB
- Iiyama 17" 1600X1200 .26dp 8617E N/I SVGA Monitor
- 104-Key Keyboard
- 8 speed CD ROM
- Mini Tower Case w/230w P.S.
- Logitech Mouseman II
- Windows 95 CD

$1769

Upgrade

•P120	$19
•TO P133/P166	$75/$240
•TO Pentium 200	$389
•TO Pentium Pro 180	$495

MOVIE STATION

- ASUS PCI w/ 256k PB M.B.
- On Board EIDE & HI speed IO
- Intel Pentium 100 MHz CPU w/fan
- 16MB RAM 60ns 72pin EDO
- 1.44 Floppy Drive
- 1.2GB EIDE HD
- VideoMgic PCI -V264CT ATI Mach 64 with MPEG Play Back
- 14".28dp N/I SVGA
- Mitsumi 104-key Keyboard
- Mini Tower Case w/230w P.S.
- 8 Speed CD-ROM
- 16-Bit Sound Card
- 100 Watts Speaker
- Microsoft Windows 95 CD

$1229

Upgrade

•P120	$19
•TO P133/P166	$75/$240
•TO Pentium 200	$389
•TO Pentium Pro 180	$495

INTERNET STATION

- MicroStar Pentium Main Board
- Intel Pentium 100MHZ CPU w/fan
- 256k Pipeline Burst cache
- 16MB RAM 60ns 72pin EDO
- 1.44 MB Floppy Drive
- EIDE w/2S/1P(16550)
- 1.2GB EIDE HD
- Diamond PCI SVGA 1MB
- Sound Blaster 16 PnP
- 8 Speed CD-ROM & Speaker
- 15" .28dp N/I SVGA
- Mitsumi 104-key Keyboard
- Supra 33.6 Fax/Modem W/ Voice
- Medium Tower Case w/230w P.S.
- Microsoft Windows 95
- Mouse & 100 Watt Speakers

$1269

upgrade

•P120	$19
•TO P133/P166	$75/$240
•TO Pentium 200	$389
•TO Pentium Pro 180	$495

Dual Pentium Pro

- Asus Dual PentiumPro Main Board
- One Intel Pentium Pro 150 CPU
- 5 PCI / 3 ISA Slots
- 32MB 72 Pin RAM 60ns
- 1.44 MB Floppy Drive
- 2S 1P IO(16550)
- 8x CD ROM
- 2.0GB EIDE HD
- Diamond Stealth 64 PCI w/1MB
- 14" .28dp N-INT SVGA
- Mitsum 104-key Keyboard
- MS Window NT 4.0 WorkStation
- Medium Tower Case
- 250-Watt Power Supply
- Microsoft Mouse

$2019

upgrade

•TO Dual P150	$279
•TO Pentium Pro 200 W/ one CPU/Dual	$945/$1,889

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M1606SAU 1.0GB 11ms IDE	$209
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MXT-71050A 1.0 GB 12 ms 256 K IDE	$199
MXT- 71330A 1.3 GB 12ms IDE	$186
MXT-71626AV 1.6GB 12ms IDE	$209
MXT-72004A 2.0GB 12ms 256 K IDE	$244
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MC-4221AV 2.1 GB 8.5ms SCSI-2 Audio/Video	$619
MC-4221W 2.1GB 8.5ms Wide SCSI	$649
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MC-3243AV 4.0GB 8.5 ms SCSI-2 Auio/Video	$1039
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1991W 9GB 10ms Wide SCSI	***$1839***
Tomahawk 9.1 UltraSCSI 7200RPM	***$1879***
Tomahawk 9.1 Wide UltraSCSI	***$1910***

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Fireball TM2110A 2.1GB EIDE	$249
Sirocco 2.5 GB EIDE 11ms 4500RPM	$279
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VP-32170S 2.1GB SCSI-2	$469
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ST-51080N 1.08GB 10.5ms SCSI-2	$255
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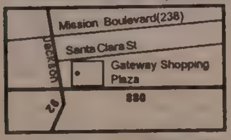

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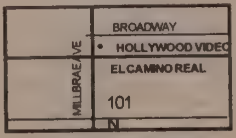

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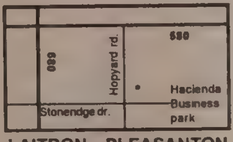

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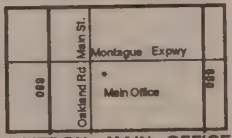

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- US Robotics 33.6i Fax/Modem
- 8 Speed CDROM
- Sound Blaster 32 Sound Card
- Yamaha YST-M7 Speakers
- Microsoft Natural Keyboard
- ATX Medium Tower Case
- Microsoft Windows '95
- Microsoft Mouse

$2469

PENTIUM 166

- Intel Marl Main Board 256K Cache
- Intel P-166 CPU w/fan
- 16MB EDO RAM 60ns 72pin
- 1.44 MB Floppy Drive
- 32Bit EIDE W/HI SPEED IO
- 1.2GB EIDE HD
- Diamond PCI Video Card w/1MB
- 15" .28dp NINT SVGA Monitor
- Mitsumi 104-key Keyboard
- Sound Blaster 16 Sound Card
- 8X CD ROM
- 100 Watts Speaker
- ATX Medium Tower Case
- Microsoft Window 95
- MS Mouse

$1479

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- AMD K5-100 Processor w/Fan
- 256K Pipe Line Burst Cache
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- PCI Enhanced IDE Controller
- High Speed I/O (2S 1P)
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- PCI Video Card w/1MB
- 14" .28dp SVGA NINT Monitor
- Mitsumi 104-Key Keyboard
- 8 Speed CD ROM
- SoundBlaster 16 & Speakers
- Microsoft Win '95
- Mini Tower Case w/230w P.S.
- 3-Button Mouse

$1059

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- 1.44 MB Floppy Drive
- EIDE w/2S/1P(16550)
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- Diamond SVGA w/1MB
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CM2011MU 20" 1600 x1200 .28 DP	$1239
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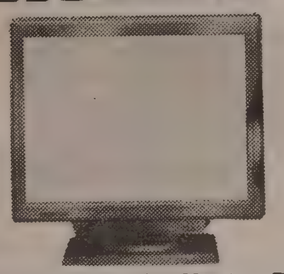

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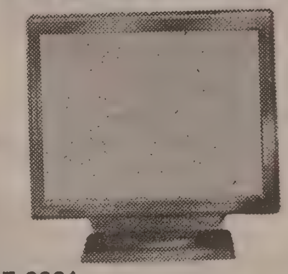

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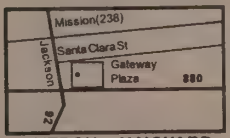

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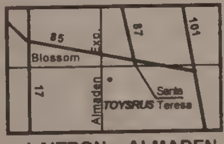

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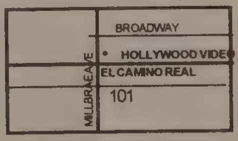

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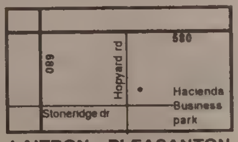

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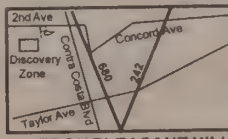

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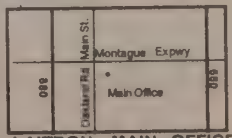

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Preventive Maintenance

continued from page 76

learn to listen to your body. If something hurts, stop that!" People hurt themselves by ignoring the small signs that indicate growing problems. If something does hurt, go see a doctor immediately. "Once it starts getting bad, it gets even worse in a big hurry. The difference of a couple days could mean a short recovery or an extended ordeal." ■

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RESOURCES:

Finding Health Information Online

World Wide Web

Typing Injury FAQ
URL: *http://www.cs.princeton.edu/~dwallach/tifaq/*

University of Nebraska-Lincoln RSI Page
URL: *http://engrwww.unl.edu/ee/eeshop/rsi.html*

Cirocco's Repetitive Strain Injury Page
URL: *http://www.omnigroup.com:80/People/cirocco/rsi/index.html*

Computer-Related Repetitive Strain Injury
URL: *http://www.engr.unl.edu:80/ee/eeshop/rsi.html*

CTD News, published by the Center of Workplace Health
URL: *http://ctdnews.com/*

Mailing Lists

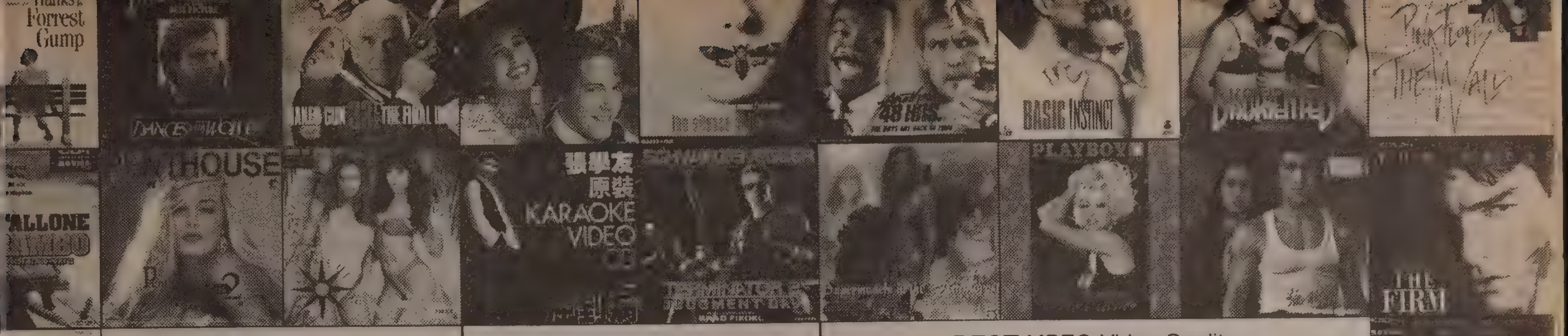
Sorehand Mailing List: for discussion of repetitive strain injuries. To subscribe, send email to *listserv@ucsfvm.ucsf.edu* with a message body of "SUBSCRIBE SOREHAND Your Name"

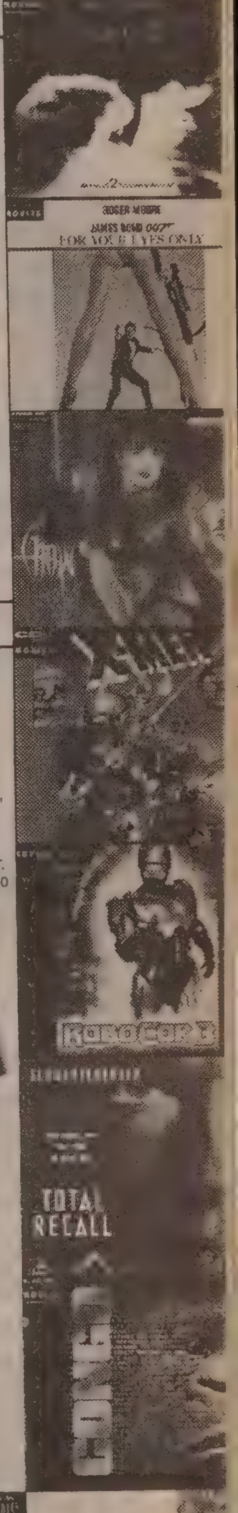
RSI Network Newsletter: A bimonthly newsletter providing information for those suffering from a keyboard-related injury. The newsletter includes information about products, doctors, therapies, and first-person stories. To subscribe, send a request to *dadadata@world.std.com* .

Usenet

misc.health.injuries.rsi.misc
an open newsgroup for discussion of repetitive stress injuries

misc.health.injuries.rsi.moderated
a moderated newsgroup for important information and announcements regarding RSIs.





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• ATI 3D Xpression 2MB EDO Xing MPEG Player included	$149

*These are not actual MPEG cards. They are MPEG Graphic Cards. Video quality will depend on memory, CPU and CD-ROM speed. One advantage is scalable video and you save 1 ISA slot!

MPEG DAUGHTER CARDS

• Matrox MPEG daughter card for Matrox Millennium	$285
• Diamond MPEG daughter card for Diamond Stealth DRAM	$199
• Diamond MPEG daughter card for Diamond Stealth VRAM	$269
• Sigma Design Maxima Scalable Hardware MPEG Card	$149

*These are hardware MPEG add-ons. However, they only work with certain models of video cards, expensive, and don't have remote control and TV/VCR output options. Again, you save 1 ISA slot!

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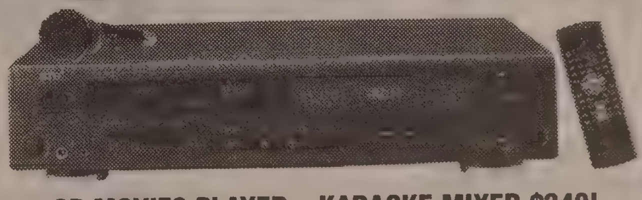

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Never Get Lost

continued from page 90

4000 has a 24-hour continuous battery life from its minuscule power draw of less than 0.3 watts.

Trimble makes some of the Cadillacs of the GPS world. Their Scoutmaster unit has three parallel receiver channels, but sells on the street for about $700. Their mobile GPS PC Card 110 fits into the PCMCIA slot of your portable computer. The only disadvantage with it, aside from cost, is that it of course won't function without a PC. You probably won't take it hiking, but it does offer the most elegant solution to use in a car.

The Eagle AccuNav Sport has some great features. Its five parallel receiver channels can simultaneously track five satellites, but this comes at a cost of short battery life from the six AA batteries and high weight (21 oz. compared to about 10 oz. for other units). Its street price is about $350. Their AccuMap Sport features a built-in map of most of North America, displayed on a 160x160 pixel display. It should cost you about $600 on the street.

Completing The Link

To complete the link of GPS receiver to computer you'll need a connecting cable and some software. Except the very bottom of the line, most GPS receivers have data outputs that can connect with your computer via a serial cable. While the communication standard used (NMEA 183) is not exactly compatible with the RS232 serial port specification, it's close enough to work—at least mine did.

The NMEA (National Marine Electronics Association) standard is made to communicate with marine equipment, but should work with most computers. The worst you'll have to do is make a custom connector from the GPS, whatever that connector is, to your serial port (DB9). I bought the data/power connector for my GPS and then soldered the three required wires (data send, data receive, and ground) to a male DB9 connector for the computer.

There are a lot of custom and special purpose mapping programs out there. The two low-end, general-purpose packages I found are by Delorme and Just SoftWorks. Delorme offerings include Street Atlas USA 4.0. for Windows ($45) and AAA Map'n'Go. 2.0 for Windows ($39). The

continued on page 274

Other GPS Links and Information

http://www.gpsworld.com/
http://www.gps4fun.com/
http://www.navtechgps.com/
http://wwwhost.cc.utexas.edu/ftp/pub/grg/gcraft/notes/gps/gps.html
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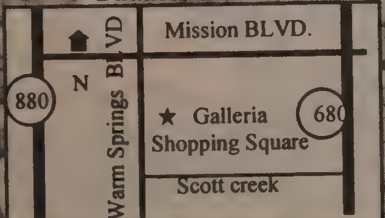

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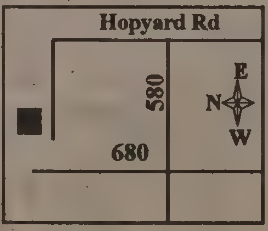

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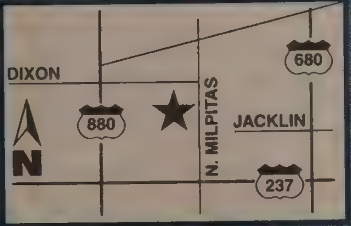

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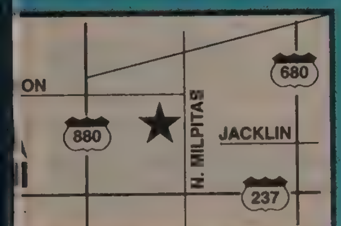

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Never Get Lost

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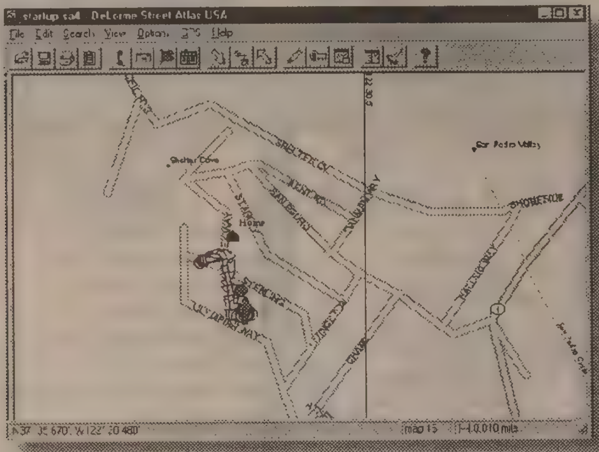
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Delorme Street Atlas USA

Street Atlas product offers the entire USA down to the street level on a single CD, while AAA Map 'n' Go sacrifices some of the small town data for a complete listing of the famous AAA Tourbook series. Delorme also offers a package, Tripmate, that includes a GPS receiver, data cable and Street Atlas software for a rock-bottom bargain of $149.

Chicago Map, formerly known as Just SoftWorks, offers Precision Mapping 2.0, available on the street for only about $30. However, to use your GPS receiver, you'll need the GPS upgrade for another $60. They also offer a kit that consists of a Garmin 38 GPS, data cable and all the software for $289 retail.

Microsoft will probably have released their entry into the street mapping/GPS capable software arena by the time this is published. Their Automap software is familiar in previous incarnations to a lot of us.

We did finally find Catalina that foggy afternoon. We promised the women that we'd just sail for an hour to the west and then give up if we didn't find the island. Two hours later, Catalina appeared out of the fog. ■

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Cyber Geek

continued from page 102

"experts" clearly don't know what they're talking about.

After all, anyone can learn HTML over a weekend, design a Web page and then smugly print up business cards with the title "Webmaster." I've seen business people bandy about terms like "applet" and "JavaScript" without a whisper of an idea of how they work. Call me snide, but I think a geek judges a person by what he really knows, not by what his business card says.

8. RTFM

A cyber geek isn't afraid to read the manual. Users who don't read the manual before asking questions with simple answers are often admonished to RTFM — "read the 'fine' manual" (substitute your favorite f-word).

But to a true geek, "RTFM" goes beyond knowing to look in the index of the manual when there's a problem. A true geek will read the manual anywhere, anytime—on the bus, while on hold, or during a lunch break. A particularly geeky friend learned most of everything he knows about the UNIX operating system while in the bathroom: he had an entire 32-volume set of manuals in there. Today, he is a UNIX system administrator.

Reading the manual when you don't need to means you'll know the solution to a question or problem when it surfaces. You'll save time and effort, and you'll be a hero to those around you. (If your friends and co-workers are not geeks, they'll be in awe of your knowledge. If they are, they'll appreciate your company that much more!)

9. Don't Be Afraid To Do It Yourself

A seasoned geek doesn't give a second thought to jiggling cables, installing memory, or swapping out the hard drive on his system (assuming, of course, that it is turned off!). Don't be afraid to learn what goes on inside that magic grey box. It doesn't take any special training to install a couple of memory chips (just a steady hand,) nor do you need a certificate from a technical school to install a CD-ROM drive. Just RTFM and give it a try. If you do get stuck, then by all means seek the help of a professional. At least you tried.

(Many geeks have a weak sort of pride because they take their computers apart so often. Most geeks don't even have the cases screwed on to their PCs, for easy access.)

OK, some folks may be absolutely unwilling to stick a screwdriver in the back of that (very expensive) machine. This attitude is also understandable. Still, hang around and watch as the computer consultant or repair person installs that CD-ROM drive. You might learn something about how your computer works, which can be useful even if you never delve into its innards yourself.

10. Geeks Help Each Other

If you see a fellow computer user in distress, and you just happened to learn the solution to the problem while reading in the bathroom the day before, help him out. If he's a geek himself, you will have come to the aid of a fraternal brother. If he isn't, consider yourself a missionary from the world of cyber geekdom. Perhaps you'll help bring someone new into the fray. After all, it's not so bad being a geek. ■

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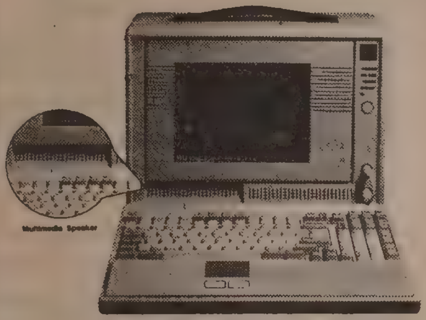

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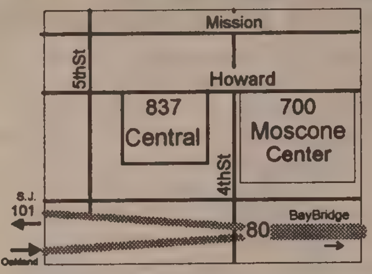

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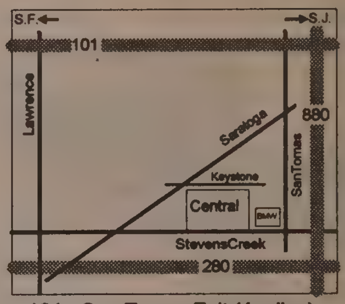

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Central Systems #31
486 Green PCI

M-Tech / Shuttle 486 PCI Motherboard
CPU Cooling Fan
4MB RAM (1 x 32 - 60ns Non-Parity)
Teac 1.44MB Floppy
Seagate 850MB IDE Hard Drive
Built-in EIDE & I/O, 256k on board
Baby Tower Case w. 230W Power
Antec 104 Keyboard
Shamrock SRC-1407 14" Monitor
Antec Serial Mouse
Spider Tarantula Lite 64 1MB VGA

with:-

AMD 486-DX2-66	$689
AMD 486-DX4-100	$695
AMD 486-DX4-133	$699
INTEL 486-DX4-100	$725

Central Systems #32
586 Basic Systems

M-Tech / Shuttle HOT-553 Motherboard
CPU Cooling / Heatsink
8MB RAM (2 of 1 x 32 EDO 60ns)
Teac 1.44MB Floppy
Seagate 850MB IDE Hard Drive
Built-in EIDE & I/O, 256k on board
Baby Tower Case w. 230W Power
Antec 104 Keyboard
Shamrock SRC-1407 14" Monitor
Antec Serial Mouse
Stealth 64 1MB DRAM PCI VGA

with:-

INTEL P-75MHz Pentium®	$865
INTEL P-100MHz Pentium®	$895
INTEL P-120MHz Pentium®	$925
INTEL P-133MHz Pentium®	$975

Central Systems #33
586 Multimedia

M-Tech T2 / Asus P55TVP4 Motherboard
8MB RAM (2 of 1x32 - 60ns EDO)
Teac 1.44MB Floppy
Western Digital 850MB IDE Hard Drive
Built-in EIDE & I/O, 256k Cache on board
8X IDE CD Rom Drive
Mid Tower Case w. 250W Power
Mitsumi / Keytronic Keyboard
Shamrock SRC-1502L OR, Proton GM1560 15" Monitor
Microsoft Serial Mouse
ESS 16 Sound Card
Mini Speakers 4W
Diamond Stealth 64 1MB DRAM PCI VGA
*** FREE CD 3-Pack*

with:-

INTEL P-100MHz Pentium®	$1225
INTEL P-120MHz Pentium®	$1255
INTEL P-133MHz Pentium®	$1299
INTEL P-166MHz Pentium®	$1499

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Cyrix Multimedia

DFI 586IPV / SuperMicro P55CMS
8MB (2 of 1x32 - 60ns EDO)
Teac 1.44MB Floppy
Western Digital 850MB IDE HDD
8X IDE CD Rom Drive
Mini Tower Case w. 230W Power
Mitsumi 104 Keyboard
Sound Blaster 16
Shamrock SRC-1407 14" Monitor
Microsoft Serial Mouse
SP-2 Supreme Sound Speakers
Diamond Stealth 64 1MB DRAM PCI

with:-

CYRIX 6x86-P133+	$1095
CYRIX 6x86-P150+	$1115
CYRIX 6x86-P166+	$1175

MS Dos 6.22 & Win 3.11- add $79 , MS Win'95 - add $89 Call, Fax or Email for Custom Configured Quote

Central Systems #35
8X Internet Multimedia

Intel Pentium®, CPU Cooling / Heatsink
16MB RAM (2 of 2 x 32 60ns EDO)
Teac 1.44MB Floppy
Western Digital 1.2GB IDE Hard Drive
EIDE & I/O, 256k Pipeline Cache on board
8X IDE CD Rom Drive
Mid Tower Case w. 250W Power
Mitsumi / Keytronic Keyboard
Shamrock SRC-1502L or Proton GM1560 15" Monitor
Microsoft Serial Mouse
SB 16 Vibra Sound Card or compatible
SP-2, Supreme Sound Speakers
Diamond Stealth 64 2MB PCI DRAM
Motorola Online Serfer 28.8 Int
*** FREE CD 4-Pack*

M-Tech T2 :	
586-100 / 133	$1499/$1575
Super P55CMS :	
586-100 / 133	$1525/$1599

Central Systems #36
8X Deluxe Multimedia

Intel Pentium®, CPU Cooling / Heatsink
16MB RAM (2 of 2 x 32 60ns EDO)
Teac 1.44MB Floppy
Western Digital 1.6GB EIDE Hard Drive
EIDE & I/O, 256k Pipeline Cache on board
8X IDE CD Rom Drive
Mid Tower Case w. 250W Power
Mitsumi / Keytronic Keyboard
MAG DX15T / Viewsonic 15ES 15" Monitor
Microsoft Serial Mouse
SB 16 Vibra Sound Card or compatible
SD-880, 120W Speakers
Diamond Stealth Video 64 2MB PCI VRAM
*** FREE CD 6-Pack*

Asus P55TVP4 :	
586-133 / 166	$1619/$1799
Super P55CMS :	
586-133 / 166	$1649/$1829

Central Systems #37
Network Station

Intel Atlantis 256k Motherboard
CPU Cooling / Heatsink
32MB RAM (2 of 4 x 32 60ns EDO)
Teac 1.44MB Floppy
Western Digital 1.2GB Hard Drive
EIDE & I/O, Vibra & SVGA on board
8X IDE CD Rom Drive
Mini Tower Case w. 230W Power
Mitsumi 104 Keyboard
JFTON TE760 17" Monitor
Microsoft Serial Mouse
SP-2, Supreme Sound Speakers
Microdyne NE2500 Combo, PNP

with:-

INTEL P-133MHz	$1659
INTEL P-166MHz	$1839

Central Systems #38
SCSI CAD Station

Intel Pentium®, CPU Cooling / Heatsink
32MB RAM (2 of 4x32 EDO)
Teac 1.44MB Floppy
IBM 32160 2GB SCSI HDD
EIDE & I/O, 256k Pipeline cache on board
LDP Fast PCI SCSI-2 Controller
6X SCSI CD Rom Drive
Mid Tower Case w. 250W Power
Mitsumi / Keytronic Keyboard
Sony 17SFII 17" Monitor
Microsoft Serial Mouse
SB 16 Vibra Sound or compatible
SP-2, Supreme Sound Speakers
Diamond Stealth Video 64 2MB VRAM
** FREE CD 10-Pack

Asus P55TVP4 :	
586-150/ 166	$2465/$2585
Super P55CMS :	
586-150/ 166	$2479/$2599

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Share Vision PC3000 (video, camera, modem)	945
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Sound Blaster 32 PNP IDE oem / reg	119/149
Sound Blaster AWE 32, plug & play	249

CRYSTALIZER

4-in-1 SCSI-2 Sound Card & MCD	89

MITSUMI

FX810T 8X IDE Int	115
FX120T 12X IDE Int	185

NEC

CDR-1450-W 8X IDE Int	125
CDR-1410 8X SCSI Int oem	189
CDR-1460A 8X SCSI Int reg	**(289)*
CDR-7460A 8X SCSI Ext	**(315)*
MultiSpin 4X Int 4 CD Rom Changer oem	**(79)*
Interface Kit w. 16 bit AT SCSI	69

PANASONIC

CR-583 8X IDE Int	115
CR-506 8X SCSI Int	169
KXL-D740 4X CD + PCMCIA I/F ($50 Rebate)	399
KXL-D745 4X CD + PCMCIA Sound	499

PINNACLE MICRO

10Xtreme 10X CD Rom, 1.5Mb/s, IDE, Int	229

PLEXTOR

PX-83CS 110ms, 1200KB/s, 256k, 8X, SCSI	299

SONY

CDU-311 8X IDE Int	115
CSD-765B 4X SCSI Int	109
PRD-150 Portable 2X w. PCMCIA Kit	345
PX-12CSi 12X SCSI Int	359

TEAC

CD56S 6X SCSI Int	**(159)*

TOSHIBA

XM-5401B 4X SCSI Int	119
5602 8X IDE Int	125

TURTLE BEACH

Wave Table Sound 32	129

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CD Caddy	3.99
CD Jewel Case for 1 / 2 / 4-CD	0.55/0.65/0.85
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New Media Wav Jammer 16 bit PCMCIA	245
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Gravis Ultrasound Pro, PNP	175
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HP Writable CD 74 min. / 10-Pack	10.95/99.95
Panasonic PowerDrive Optical : 2X Write, 4X Read Int / Ext	485/615
- Writable Optical Disk	49.95
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Pioneer Writable CD (74 min.)	9.75
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- w. controller & software	**(750)*
Verbatim Writable CD (74 min.)	9.95
Yamaha CDR-100 4X Drive Int / Ext.	895/995
Yamaha CDR-102 2X Drive Int	**(565)*
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Active 85 (100W) / Active SP-690	39/33
Altec ACS45 w. Sub-woofer	79
Altec ACS51 / ACS52 / ACS53	65/89/125
Altec ACS150 / ACS300.1	99/199
Altec ACS500	295
EP-70 Magnetically Shielded (70W)	29
EP-280 Amplified Speakers (60W)	29
JAZZ J-306 5W RMS per Channel	39
JAZZ J-590 14W RMS per Channel	69
Koss Speakers oem	29
Labtec LCS-150 Stereo	18.95
Labtec LCS-600 Stereo	24.95
Labtec 1224 Space Server 3D Stereo (10W)	69
MLF-CP55 Mini Speakers (4W)	**(4.99)*
Pro-260 Multimedia Speakers	19.95
Yamaha YST-M7 (5W) / YST-M10	45/59
Yamaha YST-M15 (10W)	75

2. CASE

ATX Mini-mid Tower w. 230W Power	99
ATX AT-601B-B Mid Tower w. 235W Power	99
ATX CF8502A Mid Tower w. 235W, Open Side	95
ATX CF8501S Full Tower w. 235W, Open Side	115
Baby AT w. 230W / Baby Tower w. 230W	49/45
CF8502A Mid Tower w. 250W, Open Side	75
CF8501S Full Tower w. 250W, Open Side	95
Mid Tower w. 250W Power	55
Full Tower w. 250W Power : 1 Fan / 2 Fans	69/89
Full Tower w. 300W Power & Wheels	149
GT212 Mid Tower w. 250W, Open Side, 2 fans: Black / White	109/105
GT312 Full Tower w. 300W, Open Side, 2 fans, 8 Bay Slots, White	169
GT300 Full Tower w. 300W, Open Side, 2 fans: Black / White	165/159
IWG500 Mid Tower w. 230W	69
KS-A5561 Full, Slide Open Side, 250W, 2 fans	125

HDD EXTERNAL CASING:

CD Rom or 5.25" External Casing	62
3.5" HD External Casing	59
2 half ht or 1 full ht for PC, 80W, w/o cable	89
4 half ht or 2 full ht, 200W, w. cable	119
8 half ht or 4 full ht, 250W, w. cable	229
MAP-431-1 1 half ht & fan, 50W, SCSI-3	109

ANTEC

KS-011+RPP3002: 19 Bay Server (9 front,10 int. bay) 300W,Hot-Swap + Redundant P/S, 2 Cooling Fan	599
KS-011+RPT600: 19 Bay File Server (9 front,10 int. bay) 300W Redundant Vertical AT P/S, 2 Cooling Fan	479

3. CONTROLLER

ADAPTEC

1522A Fast SCSI Board, 3Mb/s / w. Kit	79/145
1542CP SCSI Board, 10Mb/s / w. Kit	169/239
2742AT SCSI EISA w. Kit	**(299)*
2940 SCSI PCI w. Kit oem / reg	209/229
2940U SCSI PCI w. Kit oem / reg	225/249
2940UW Ultra Wide-SCSI PCI w. Kit oem / reg	265/289
AHA3940 PCI Multi-Channel SCSI	399
APA1460 Slim PCMCIA SCSI	165
ASW-EZ SCSI 3.1 for Dos & Windows	59
ASW-EZ SCSI 4.0 for Windows '95	69

COREL

Corel SCSI Software v2.5	85

FUJITSU

PCMCIA Type II SCSI-2 10MB/s	199

KOUWELL

KW557A IDE/ 1.44/ 2S(FiFo)/ ECP/ 1G	29
KW560C VLB EIDE/ FDC/ 2S 1P 1G	29

LDP (LOMAS DATA)

Fast PCI SCSI-2 10Mb/s	**(139)*
PCI Fast 20, Ultra Wide SCSI, 40Mb/s	215

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EIDE 2300 Plus IDE/ 4HD/ 2S 1P/ 16550	59

SIIG (5 yr. warranty)

CN2420 EIDE 4HD 16 bit ISA	39
CN2419 EIDE 4HD/ 2FD 16 bit ISA	59
CN2424 EIDE 4HD/ 2FD/ 2S 1P 1G/ 16550 & IEEE1284	79

WONDER SYSTEM

IDE w. 4FD/ 2.88/ Drivers Tape/ 1.0 Mbps	29
VL3208 EIDE w. 4HD/ 2FD/ 16550/ VLB	29

OTHERS

ASUS SC200 SCSI-2 PCI (w. NCR chips)	79
WD SCSI-2 PCI	79

4. CPU

AMD

486-DX2-66	29
486-DX4-100	35
486-DX4-120	39
486-DX4-133	45

CYRIX

6x86-P133+ processor	145
6x86-P150+ processor	159
6x86-P166+ processor	**(199)*

INTEL

SALE

133MHz Pentium® w. fan (3 yr. warranty)	**239**
166MHz Pentium® w. fan (3 yr. warranty)	**439**

486 DX2-66 / 486 DX4-100	49/59
P54C -75MHz Pentium®	119
P54C -100MHz Pentium®	155
P54C -120MHz Pentium®	175
P54C -133MHz Pentium®	225
P54C -150MHz Pentium®	285
P54C -166MHz Pentium®	399
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Pentium® Pro 200MHz w. fan & 256k cache	call

OverDrive®:

Pentium® 63Mhz (fr 486-25 or DX2-50)	149
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Pentium® 133Mhz (fr 586-60 / 66)	275
Pentium® 166Mhz (fr 586-100)	485

OTHERS

Cooling Fan for 486 CPU	4.95
Cooling Fan for Pentium® processor	6.95

5. DIGITIZER

SUMMASKETCH

III 12 x 12, 4 or 16 button cursor / stylus	**(249)*
III 12 x 18, 4 button cursor	**(395)*
- 2 button stylus for III	39

WACOM

Art Pad II 4x5, w. Erasing Ultra Pen for PC	135
- w. Fractal Dabbler	155
Art Pad II 4x5, for MAC	139
Art Z II 6x8, w. Erasing Ultra Pen for PC	**(299)*
- for MAC	309
Art Z II 12x12, w. Erasing Ultra Pen for PC	425
- for MAC	429
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UD-2 Mac Kit	45
UD-520 4-button Cursor	109
UP-201 Pressure Stylus	49.95
UP-701E Erasing Ultra Pen	69.95

6. DRIVE

FLOPPY DRIVE :

TEAC

1.2MB 5.25"	43
1.44MB 3.5" / w. frame	27/31
Dual - 1.2MB & 1.44MB	85

HARD DRIVE :

FUJITSU

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M1623TAU 1.7GB 10ms 128k, 5400rpm, IDE	219
M1624TAU 2.16GB 10ms 128k, 5400rpm, IDE	269
M1638TAU 2.56GB 10ms 128k, 5400rpm, IDE	299
M2954SAU 4GB 9ms 512k, 7200rpm, SCSI-2	859

IBM

32160 2GB 8.5ms SCSI, 5400rpm	359

KINGSTON

PCMCIA 260MB IDE, type III	375
PCMCIA 340MB IDE, type III	445

MAXTOR

MXT-71670A 1.6GB 12ms 128k IDE	219
MXT-72025AP 2GB 12ms 128k IDE	259

MICROPOLIS

MC-4221 2.1GB 9ms 512k 1/2 ht	599
MC-3243 4GB 8.5ms 512k 3.5" ht	869
MC-1991 9GB 12ms 5.25"	1855

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FBTM-1080AT 1.08GB 12ms 128k IDE	179
FBTM-1280A 1.2GB 12ms 128k IDE	199
FBTM-1700AT 1.7GB 11ms 128k IDE	219
FBTM-2110AT 2.1GB 10.5ms 128k IDE	265
FBTM-3200AT 3.2GB 11ms 128k IDE	359
Atlas XP-32150W 2GB 8ms 7200rpm, Fast-Wide SCSI	569

SEAGATE

ST-3850A 850MB 14ms 128k IDE 1" ht	145
ST-31276A 1.2GB 12ms 64k IDE 1" ht	189
ST-32132A 2.1GB 12.5ms 128k IDE	265
ST-51080N 1GB 12.5ms 128k SCSI	275
ST-32107W 2GB 8ms Wide-SCSI	539
ST-32155N 2.14GB 9ms 256k Ultra SCSI	499
ST-32155W 2.14GB 9ms Fast-Wide SCSI	589
ST-32550N 2.14GB 8ms 512k SCSI-2	679
ST-32550W 2.14GB Fast-wide SCSI	749
ST-34371N 4GB SCSI	1095
ST-15230N 4.3GB 9ms 512k SCSI	965
ST-1917N 9GB SCSI	2495

TOSHIBA (notebook drive)

PCMCIA 262MB IDE	425
MK1002MAV 1GB 13ms 128k IDE 2.5"	269
MK1301MAV 1.3GB 13ms 128k IDE 2.5"	399

WESTERN DIGITAL

WD-2850 850MB 10ms 128k IDE	155
WD-21200 1.2GB 11ms 128k IDE	**(209)*
WD-21600 1.6GB 10ms 128k IDE	229
WD-22100 2.1GB 12ms 128k IDE	285
WD-32500 2.5GB 12ms 128k IDE	309
WD-33100 3GB 12ms 128k IDE	359

OTHERS

Descartes PCMCIA Card Reader /Writer for PC	109
Mounting Frame for 3.5" Hard / Floppy Drive	4/4
Removable Case for 3.5" HD IDE	23
Removable Case for HDD SCSI	25

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EPSON

Zip 100 SCSI Portable	**(185)*

IOMEGA

Jaz Drive 1GB SCSI Int	395
Jaz Drive 1GB SCSI Ext	495
- Jaz Disk 1GB / 5 Pack	119/499
Zip Drive 100MB SCSI Int	199
Zip Drive 100MB SCSI Ext	189
Zip Drive 100MB Parallel	189
- Zip Disk 100MB : Single	17.95
- Zip Disk 100MB : 3-Pack	48
- Zip Disk 100MB : 10-Pack	155
Zip Zoom SCSI Accelerator Card	54

SYQUEST (Mitac)

105MB 3.5" w. cart., SCSI for Mac, Ext	**(175)*
105MB Cartridge	55
270MB Cartridge	65
EZ 135MB IDE Int	139
EZ Flyer 230MB Parallel	**(269)*
EZ Disk 135MB	19.99
EZ Disk 230MB	35

7. I/O CARD

FUJITSU

PCMCIA Serial Card	135

KOUWELL

KW508-E Single Parallel Port	12
KW524H 2S /1P /1G	22
KW524J-1 2S /2P w. 16550 chips	29
KW524L 2S(FiFo) / 1P / 1G w. 16550 chips	32

QUICKPATH (16550)

FlexPort 42: 4 Serial / 2 Parallel (Bi - Dir)	99
PortFolio 550E: 13 Port Multi-I/O, 4 Serial/ 4 FDD/ 2 Parallel/ 2 IDE/ 1G	125

SIIG

Cyberpro 2S Highspeed w. 16650 chips	55
Cyberpro 4S Highspeed w. 16650 chips	89
IO1809 2S/1P w. 16550 chips	39
IEEE 1284 EPP/ ECP/ Parallel Port	32

STB 4-COM

4 Serial, 16 bit, 16550, support Com 1-8, IRQ (2,3,4,5,10,11,12,15)	99

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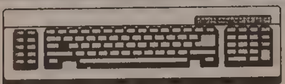
8. KEYBOARD



FOCUS

FK2001 101 Click / 104 for Win'95	29/35
FK8000 101 w. Calculator	39
FK7200 101 Trackball	37

MICROSOFT

Natural Keyboard oem	69

NORTHGATE OMNI

101P	69
102P	69
Ultra TP	85
Omnikey Evolution/Glide Point	*(109)

QTRONIX

Scorpius 104+ for Win'95: White / Black	25/26
Scorpius 105 for Mac	32
Scorpius 105 Trackball for Mac	49

SIIG

Minitouch 81-key Click	45
Supertouch 101 Click	53
W104 (for Win'95)	29
Wintouch 104	39

OTHERS

Antec 104 / Black	21.50/39
BTC 5100 Key Mini (80-key)	35
Keytronic 104	*(29)
Maxi 101 / Maxi 124	33/49
Mitsumi 104 model-R / model-ZW	29/16.50
Unikey Natural Keyboard	36

9. MEMORY

DRAM

256k x 4 - 70ns	3.50

SIMM

1 x 9 - 60ns / 70ns	(1MB)	9/9
4 x 9 - 60ns / 70ns	(4MB)	35/35
1 x 36 - 60ns / 70ns	(4MB, 72 pin)	35/35
2 x 36 - 60ns / 70ns	(8MB, 72 pin)	65/65
4 x 36 - 60ns / 70ns	(16MB, 72 pin)	115/115
8 x 36 - 60ns	(32MB, 72 pin)	219
EDO 1 x 32 - 60ns (4MB)		19
EDO 2 x 32 - 60ns (8MB)		39
EDO 4 x 32 - 60ns (16MB)		89
EDO 8 x 32 - 60ns (32MB)		169
Non Parity : 1 x 32 - 60ns / 70ns		19/19
Non Parity : 2 x 32 - 60ns / 70ns		39/39
Non Parity : 4 x 32 - 60ns		89
Non Parity : 8 x 32 - 60ns		169
Simm Verter 30-pin to 72-pin converter		21.95

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Memory for Computer, Laptop, Notebook, & Laser Printer upgrades	call

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APEX

PCMCIA 14.4 Type II Mobile Direct	*(85)

BOCA

SALE

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14.4 Online Express Int / Ext.	*(59/69)
14.4 Voice Fax Modem Int / Ext.	99/109
14.4 VSP Sound Express Fax Modem	*(99)
14.4 Sound Expression Int	*(125)
28.8 Fax Modem v.34 Int / Ext	*(149/179)

FUJITSU

PCMCIA 28.8 v.34 Type II	279
PCMCIA ISDN	325

GVC (Maxtech)

PCMCIA 9624 Fax	*(69)
28.8 Fax Int	*(139)

HAYES

Accura 144 Fax Int / Ext	*(79/99)
Accura 28.8/14.4 v.34 Fax Int / Ext	149/*(165)
ESP Communication : Single Port	85
Optima 288 v.34 Fax Int	239
Optima 288 v.34 Fax Voice Ext	*(245)
Optima 288 v.34 PCMCIA w. EZ jack	*(225)

MEGAHERTZ

XJ4288 PCMCIA Fax, cellular capable.	*(225)
XJ4288M PCMCIA Fax, cellular w. Motorola cable	249

MICROCOM

Deskporte 28.8S V.34 Fax Ext	*(165)
Deskporte 28.8P V.34 Ext Parallel	229

MOTOROLA

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BitSerfer TA210 ISDN Ext	*(249)
BitSerfer Pro ISA for ISDN Int	*(298)
BitSerfer Pro ISDN Multilink PPP Ext	*(299)
Modem Serfer 28.8 Fax Int / Ext	*(115/125)
Montana PCMCIA : 28.8 / 33.6	*(195/215)
Online Serfer 28.8 Fax Int / Ext	*(119/155)
Premier 33.6 Modem Int / Ext.	*(215/229)

PHOBE MICRO

28.8 Fax Int	*(92)

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PC288HC PC28.8 v.34 Fax, 230K DTE Int	245
PC288MT 28.8 v.34 Fax Ext	259
PC28.8 v.34 Ext LCD	295
PM144HC PM144FX144 Int	*(69)
PM144MT Mini Tower 144 Ext	*(85)
PM288HC PM28.8 v.34 Int	*(145)
PM288MT Mini Tower Ext	*(165)

PURE DATA

Satisfaxion 400 144/144 Fax Int	255
Satisfaxion 400e 144/96 Fax Ext	335
Satisfaxion 428 28.8 v.34	325

SUPRA EXPRESS

33.6 Fax PNP Int oem	99
33.6 Fax PNP & Voice Int oem	105

US ROBOTICS

SALE

Courier V. Everything Int	**229**
Courier V. Everything Ext	**255**
Sportster v.34 33.6 Fax Int oem	**119**
Sportster v.34 33.6 Fax Int reg ($20 Rebate)	**145**
Sportster v.34 33.6 Fax Ext ($20 Rebate)	**159**
Courier ISDN v.34 Int / Ext	239/295
Courier ISDN v.34 with NT1 Int / Ext	275/335
Courier ISDN with Analog Int / Ext	295/355
Courier PCMCIA 28.8	279
Sportster 14.4 Fax Void Modem Int / Ext	99/109
Sportster ISDN 128k Int	*(325)
Sportster 14.4 Win Modem Int.	59
Sportster 28.8 Win Modem Int ($20 Rebate)	109
Sportster 28.8 DSVD Int	*(139)
Sportster v.34 28.8/14.4 Fax for MAC	215
Sportster v.34 33.6 Fax/ Voice / Speaker Phone Int oem	135
Sportster v.34 33.6 Fax/ Voice/ Speaker Phone Int reg ($20 Rebate)	165
Sportster v.34 33.6 Fax/ Voice Ext	*(149)
- w. Speaker Phone Ext	189
Sportster PCMCIA Fax v.34 28.8	*(199)
Total Control Modem Pool/8	2950
Total Control Modem Pool/16	5560

WISECOM

WS-2814IS6/W 28.8 Data / Fax / Voice Int	*(139)

XIRCOM

CM-28 28.8 Fax PCMCIA	215
CM-33 33.6 Fax PCMCIA	229

ZOOM

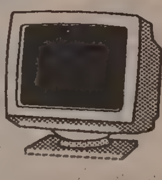
28.8 V.34 14.4 Fax Int / Ext	*(99/125)
Comstar 28.8 Voice V.34 Tel Int	*(149)
33.6 Fax Modem Int	*(115)

OTHERS

3D Fax Pal: 0.5MB / 2MB	135/179
CommShare 550 Phone & Fax Auto-switch	*(69)
CommShare 750 4 Port Switching	*(89)

11. MONITOR

For your comparision,
we display same pictures
on 20 big monitors
using VGA splitters.



ACCESSORIES :

3M Monitor Lens: 15" / 17" / 21"	39.95/49.95/99.95
VGA Monitor Splitter : 4 Port / 8 Port	155/195
VGA, Keyboard Switch : 4 Way	19.95
VGA, Keyboard & Mouse Switch : 2 Way	24.95
VGA, Keyboard & Mouse Switch : 4 Way	34.95
VGA Switch 1 to 4 Way	13.95

ARTMEDIA (Sony oem)

T1664 15" 1280 x 1024 .25	379

EYE Q

SM1411 14" Flat Mono Amber	85
SM1418 14" SVGA Mono	99

DIGIVIEW

MVD-1508 15" 1280 x 1024 .28	315

SALE

MVD-1709D 17" 1600 x 1200 .25	**675**
MVD-1708 17" 1280 x 1024 .28	545

HITACHI

CM500 15" Flat 1280 x 1024 .28 NI	369
CM611 17" 1600 x 1280 .26 NI	779
CM1711 17" 1280 x 1024 .28 NI	799
CM2011M 20" 1600 x 1200 .28 NI	1210
CM800 21" 1600 x 1200 .22	1535
CM802 21" 1600 x 1200 .22	1785

IIYAMA

SALE

MT-9017E 17" 1600 x 1200, 72Hz, .25 NI	**729**
MF-8221E 21" 1600 x 1280, 76Hz, .28 NI	**1435**
MF-8617E 17" 1600 x 1200, 69Hz, .26 NI	669
MT-9021E 21" 1600 x 1280, 76Hz, .30 NI	*(1525)

JFTON (NEC oem)

TE-760 17" 1280 x 1024 .28 NI	499

KFC

CA1515DS 15" Flat 1280 x 1024 .28	*(319)
CA1716DL 17" 1280 x 1024 .28	539

MAG

DX15T 15" 1280 x 1024 .26 NI	*(359)
DX17T 17" 1280 x 1024 .26 NI	685
DX1795 17" 1280 x 1024 .28	*(595)
MXP17F 17" Flat 1600 x 1280 .26 NI	*(739)

MITEC

L1564+ 15" 1280 x 1024 .28	289

NANAO

F2.17 17" 1280 x 1024 .28 NI	825
F2.17EX 17" 1600 x 1200 .26 NI	925
T2.17 17" 1280 x 1024 .25 NI, Trinitron	*(965)
T2.17TS 17" 1280 x 1024 .25, Diamondtron	899
TX-C7S 17" 1600 x 1200 .25, Trinitron	999
T2.20 20" 1600 x 1280 .30 NI, Trinitron	1759
FX2.21 21" 1600 x 1280 .26	2865

NEC

C500 15" 1280 x 1024 .28, plug & play	389
M500 15" 1280 x 1024 .25 NI	*(449)
XV15 Plus 15" 1024 x 768 .28	435
M700 1280 x 1024 .25 NI	*(769)
P750 17" 1600 x 1200 .25	999
XV17 Plus 17" 1600 x 1200 .28 NI	*(765)
P1150 21" 1600 x 1200 .25, 75Hz	1969
XE21 21" 1280 x 1024 .28 NI	*(1675)
- Monitor Lens for 15XV	75
- Monitors Lens for 17XV / 17XE / 17XP	79/99/99

NOKIA

447L 17" 1024 x 768 .28 NI	*(699)
447X 17" 1600 x 1280 .25 NI	*(859)
445Xi 21" 1600 x 1200 .26 NI	1699

OPTIQUEST

1000S 14" 1024 x 768 .28 NI	255
V665 15" 1280 x 1024 .28 NI, Digital	345
V775 17" 1600 x 1200 .26 NI	625
2082DC 20" 1600 x 1200 .28	1199

PANASONIC

C1791E 17" 1280 x 1024 .28 NI (demo unit)	*(545)

PRINCETON

Ultra 17 Plus 17" 1600 x 1280 .28 NI	*(615)
Ultra 70F 17" 1280 x 1024 .28 NI	535

PROTON

GM1449A 14" 1280 x 1024 .28 NI, built-in speakers & earphone	265
GM1560 15" Flat 1280 x 1024 .28 NI	299
GM1764 17" Flat 1280 x 1024 .28 NI	525

SAMSUNG

15GLi 15" 1280 x 1024 .28 NI, at 60Hz	399
17GLi 17" 1280 x 1024 .28 NI, at 60Hz	685
17GLSi 17" 1600 x 1200 .26 NI, at 68Hz	825
20GLSi 20" 1600 x 1200 .28 NI, at 66Hz	1175

SHAMROCK

SRC-1407 14" 1024 x 768 .28 NI, Digital	219
SRC-1502L 15" 1280 x 1024 .28 NI, Digital	299
SRC-1703L 17" 1280 x 1024 .28 NI, Digital	525
SRC-1702L 17" 1600 x 1280 .26 NI, BNC	689
SRC-2002L 1600 x 1280 NI	*(1025)
SRC-2102L 1600 x 1280 NI	*(1125)

SONY

15SFII 15" 1280 x 1024 .25 NI plug & play	445
15SX 15" 1280 x 1024 .25 NI, plug & play	379
17SEII 17" 1600 x 12000 .25 NI, plug & play	*(949)
17SFII 17" 1280 x 1024 .25 NI plug & play	749
200SF 17" 1280 x 1024 .25 NI, 75hz	769
20SEII 20" 1600 x 1200 .25 NI	1799
20SFII 20" 1600 x 1200 .30 NI, plug & play	1599

TVS

9" 1024 x 768 VGA Mono	119

VIEWSONIC

14ES 14" 1024 x 768 .28 NI	259
15ES 15" 1024 x 768 .28 NI, MacII	329
15G 15" Flat 1280 x 1024 .28 NI	*(359)
15GA 15" 1280 x 1024 .28 NI, built-in speakers	*(439)
15GS 15" 1024 x 768 .28 NI	375
17EA 17" 1280 x 1024 .28 NI, plug & play	599
17GA 17" 1280 x 1024 .27 NI, plug & play	*(689)
17GS 17" 1280 x 1024 .27 NI	599
17PS 17" 1600 x 1280 .25 NI, plug & play, TCO	*(675)
GT770 17" 1280 x 1024 .25	669
PT770 17" 1600 x 1280 .25	769
20G 20" 1600 x 1280 .28 NI, MacII, TCO	*(1089)
GT800 21" 1600 x 1280 .30	1349
P810 21" 1600 x 1280 .25	1439
P815 21" 1800 x 1440 .25 NI	1675
PT810 21" 1600 x 1280 .30	*(1609)
29GA 29" 1280 x 1024 .75 stripe pitch	*(2395)

WYSE

WY-15E 15" 1280 x 1024 .28 NI	399
WY-55 Terminal 14" : Amber/ Green/ White	275 each
WY-60 Terminal 14" : Amber/ Green/ White	359 each
WY-65 Terminal 14" : Amber/ Green/ White	345 each
WY-150 Terminal 14" : Amber/ Green/ White	325 each
WYSE Enhanced PC Keyboard	98

12. MOTHERBOARD

ASUS (w/o cpu)

586-90 / 133, 256k PCI EISA, dual processor	445
P55T2P4 586-166, PCI, 256k, Burst SRAM	169
P55TVP4 586-200Mhz, PCI, , T3, 256k Burst SRAM	165
P6NP5 Pro 200Mhz, w. IDE I/O & 440FX chipset	315
P65UP5 Pro 200Mhz, dual Pentium® slots	625
XP55T2P4 586-200, PCI, ATX, 256k Burst SRAM	175

INTEL (w/o cpu)

Atlantis 586-166Mhz PCI, Triton, built-in IDE I/O, w. ATI Mach 64 1MB & 256k Burst SRAM	199
Atlantis 586-166Mhz PCI, Triton, built-in IDE I/O, ATI Mach 64 1MB SVGA & Vibra Sound	
w. 256k Burst SRAM	259
w. 512k Burst SRAM	289
Marl 586-166Mhz, 256k, ATX	155
Venus Pro-200, IDE I/O, w. 440FX oem / reg	295/325

M-TECH (w/o cpu)

486-DX2-66 256k VESA, 30-pin & 72-pin	99
486-DX4-133 256k PCI, 30-pin & 72-pin	115
586-166Mhz 256k PCI, 30-pin & 72-pin, w. Burst SRAM 256k	139
T2 586-166Mhz 256k w. Burst SRAM	159

MICRONICS (w/o cpu)

M54Hi Plus 586-166 256k, Trition, w. Burst SRAM	219
M54Hi Plus 586-166 256k, Triton, w. Burst SRAM & Sound Card	279

SHUTTLE (w/o cpu)

HOT-433 486-DX4-133Mhz 256k, PCI, IDE I/O	119
HOT-557 586-200, 256k Burst SRAM, PCI, 430VX	139
HOT-553 586-200, 256k Burst SRAM, PCI, 430HX	155

SUPER (w/o cpu)

P55CMS 586-90 / 180 256k, PCI, built-in IDE I/O	
- w. Burst SRAM 256k, w/o cpu	185
- w. Burst SRAM 512k, w/o cpu	209
P5STE 586-166 256k, PCI, built-in EIDE I/O, T2	
- w. Burst SRAM 256k, w/o cpu	199
- w. Burst SRAM 512k, w/o cpu	225
P6DNF Pro 200Mhz, dual Pentium® slots, w. IDE I/O & 440FX chipset	*(499)
P6DOF Pro 200Mhz, dual Pentium® slots, w. IDE I/O & Orion chipset	*(589)
P6DNE Pro 200Mhz, dual Pentium® slots	439
SNEPRO6 Pro 200Mhz, w. IDE I/O & 440FX	299

13. MOUSE & JOYSTICK

KENSINGTON

Expert Bus 5.0	115
Expert Serial & Trackball 5.0	*(89)
Mouse in a Box	*(29.95)
Thinking Mouse (serial & PS/2)	79

LOGITECH

Cordless Mouseman 96	72
Mouseman 96	52
Mouseman Bus	64
Mouseman Sensa	29
Serial Combo PC & PS/2 oem / reg	32/45
Trackman Live Cordless	125
Trackman Marble (for Win'95)	85

MICROSOFT

Bus 2.0 400dpi w. Bus Card oem / 5-Pack	65/325
Home Mouse Serial	29
PS/2 2.0 (round connector) oem / reg	35/59
Serial 2.0 400dpi oem / reg	29/55

MOUSE SYSTEMS

Mouse! Serial w. Pad	19
Omni Mouse (new version)	26
PC Mouse III (3-button optical)	49.50
PC Trackball II	39.95
ProAgio (5-button serial)	39
Serial Bus Card (9IRQs) - 5 com	29

QTRONIX

Lynx 90 Ergonomic w. mouse pad	18
Lynx 95 Ergonomic	16

OTHERS

AGILER ATB-610 Serial Trackball	19.95
AGILER Bus Mouse	23
ANCER 3-button Black	19
ANTEC Serial Mouse	*(6.95)
Basketball Sports Mouse w. pad	24
Baseball Sports Mouse w. pad	24

*(price) .... *SPECIALS , while supplies last*

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LARGEST SELECTION IN THE BAY AREA

MONITORS CD TITLES NETWORK

Flintstone Mouse w. mouse pad	*(9.95)
Football Sports Mouse w. pad	24
Soccer Sports Mouse w. pad	24

JOYSTICK :

LOGITECH

Wingman Extreme oem / reg	39/47
Wingman Standard w. free CD	29

MICROSOFT

Side Winder 1.0	29
Side Winder 3D Pro	*(55)

MOUSE SYSTEMS

Cobra (joystick)	9.95

QTRONIX

Orion 90 (joystick)	18.50
Orion 95 (game pad)	9.50

THRUSTMASTER

ACM Gamecard	29.95
F-16 FLCS / F-16 TQS	125/129
Flight Control System MK II	65
- w. US Navy Fighters	79
Flight Control System Pro	108
Formula T2	119
Rudder Control	109
UPROM	29.95
Weapon Control MKII	109
Wizzard (pinball controller + Royal Flush CD)	39
XL Action	28
- w. EF2000 game	33.95

OTHERS

Command Pad (by Quickshot)	8.99
CyberFlight Joystick + Dark Forces	39
CyberPad + Doom II	34
Dexxa Control Pad w. CD games	18
Game Gun + Crime Patrol	39
Gravis PC Joystick	*(8.95)
Gravis Eliminator Game Card 2 Port	19.99
- Game Port Y Splitter	9.95 each
PC Gamepad	*(12.95)
Power Ramp (10-in-1 game pad)	49.95
Touche' Touch Pad for Serial / PS/2	*(55/55)
Daffy Duck Mouse Pad	5.99
Flintstone Mouse Pad	7.99
Star Trek Mouse Pad / Star Wars Pad	7.99/7.99
Walt Disney Mouse Pad (Mickey / Pocahontas / Timon & Pumbaa / Toy Story / Pooh)	4.99 each

14. NETWORK

Government & Education Pricing Available
Please Call for Details

3COM

3C250 FMS 100BaseTX Fast 12 Port HUB	*(1295)
3C509B TPO (RJ45 only) oem	*(69)
- single reg / 5 Pack	*(105/395)
3C509B Etherlink III TP+AUI oem	*(75)
- single reg / 5-Pack	*(108/449)
3C509B-TPC (TP + BNC) oem / reg	89/115
3C509B Combo (TP + AUI + BNC) oem	94
- single reg / 5-Pack	119/525
3C562 PCMCIA Lan + Modem TP	*(335)
3C562 PCMCIA Lan + Modem Combo	*(375)
3C589C PCMCIA TP / 5-Pack	*(139)/685
3C589C PCMCIA Combo / 5-Pack	*(179)/895
3C592 Etherlink III EISA TPO / Combo	199/219
3C597-TX EISA 10/100 TP	239
3C861 Impact ISDN S/T Interface Int	349
3C862 Impact ISDN U-Interface, built-in NT1, Int	425
3C871 Impact ISDN Digital Modem Ext	349
3C882 Impact IQ ISDN with V.32bis Ext	365
3C900 PCI TPO oem / reg	95/115
3C900 PCI Combo oem / reg	*(119)/135
3C905-TX PCI 10/100 TP oem	*(129)
- single reg / 5-Pack	159/645
3C16170 Link Builder (12TP)	325
3C16670A Superstack II 12 Port Hub	495
3C16671A Superstack II 24 Port Hub	*(849)
3C16700 TPO Office Connect HUB (8TP)	149
3C16701 TPC Office Connect HUB (8TP + BNC)	189
3C16710 TPM Office Connect HUB: (8TP + BNC + Management)	459
3C16901A Switch 1000 12 Port 1 Fast	2495
3C16900A Switch 1000 24 Port 1 Fast	*(2895)
3C16941A Switch 3000TX 8 of 100TX Port	5295
LANPLEX products	call

ADAPTEC

ANA-6901 32 PCI Full Duplex TP / Combo	*(85/99)
ANA-6904 32 PCI 4-Port Full Duplex TP	399
ANA-6910TX PCI Fast-TX, 32 bit bus mastering	175
ANA-6940TX PCI Quarlet Fast (4UTP)	745
ATM 25.6Mb/s 128k PCI	299
ATM 25.6Mb/s 512k PCI	389
ATM 155 Mb/s 512k PCI UTP	725
EM525 Ethernet 16 Combo	*(69)
EM932 EISA 32 bit Coax / TP	*(198/199)

ALLIED TELESYN

MR820TR MicroHub 8 Port (8TP + AUI + BNC)	139
Rack Mount Ears for HUB	19.95
Transceivers: MX10 (AUI - BNC) / 210T (AUI - TP)	29/29
Transceivers: 210TS (AUI - TP) for SUN Sparc	29.50
Workgroup Hub 3012TR 12 Port (12TP+AUI+BNC)	239
Workgroup Hub 3016TR 16 Port (16TP+AUI+BNC)	265
Workgroup Hub 3024TR 24 Port (24TP+AUI+BNC)	365

ARTISOFT (Lantastic)

Corstream Server 5-user (8340)	*(399)
- upgrade to dedicated server	59
HUB: 8 Port (8TP + BNC)	189
Lantastic 7.0 for Single - CD / FD	85/89
- upgrade for single - CD / FD	55/65
Lantastic 7.0 10-user - CD / FD	355/359
- upgrade for 10-user - CD / FD	245/255
Lantastic 7.0 1-user Add On	129
Lantastic 7.0 Starter Kit 2-user - CD+FD	249
Lantastic for OS/2	99
Lantastic for TCP/IP single / 5-user	199/785
Lantastic PowerSuite :	
-1 / 5 / 10 / 25-user	149/599/1075/2295
- conversion for 1 / 5 / 10-user	89/345/595
NR-SI 2000C Coax / TP	*(74/75)
NR-SI 2000A Combo	85

ASANTE (for Mac & PC)

10T HUB 8 Port (8TP + 1BNC)	*(135)
10T HUB 12 Port (12TP + 1BNC + 1AUI)	*(239)
EtherPAC 2000+ T	*(55)
Fast 100BaseTX 12 Port Hub, stackable	*(1475)
Fast 100BaseTX 12 Port PNP	*(1295)
FriendlyNet with BNC Adapter / TP Adapter	59/55

ASCEND

P25-IU-FX: ISDN Pipeline 25 + 4 Ethernet	*(455)
P25-IU-RTR-FX: ISDN P-25 w. NT1, IP & 4 Ethernet	699
P25-IU-PX: ISDN Pipeline 25 + IP Routing	*(525)
ISDN Pipeline 50 w. UBRI / w. SBRI	*(895)/945
MAX200+ (M201 - 4BRIU)	2975
MAX1800 (MX18 - 8BRIU)	*(4995)
P130-UBRI-FT1 ISDN	1350

ATTACHMATE

Products	Call

BAY NETWORK

CG1001E01 Bay Stack 12 Port	635
CG1001E02 Bay Stack 24 Port	1095
Lattislink 2800A: 16TP + 1AUI	559
Lattishub 2803: 16TP + 1AUI Stackable	599
Lattisswitch 28115 10/100 TP 16 Port	6995

BOCA

BEN120 Combo	*(59)
BEN210 8 Port HUB	*(105)
BEN1VL VLB TP / BENPI PCI 32 bit Combo	69/*(79)

CASTELLE

JetPress MIO TP (network printer server)	339
JetPress XIO Coax + TP	369
LANPress (print server connects up to 4 printers)	
- Ethernet 10BaseT (1P)	309
- Ethernet BNC & 10BaseT (2P, 1S)	369
- Ethernet BNC & 10BaseT (2S 2P)	435

CHEYENNE

Arc Serve 5.1 for Netware 5-user	225
Arc Serve 6.0 for Win - 5 to 25-user	475
- upgrade Workgroup edition	239
Arc Serve 6.0 for Win - 50 to 1000-user	1095
- upgrade Workgroup edition	415
Arc Serve for Win NT Single Server	*(415)
Arc Serve for Win NT Enterprise	*(725)
Arc Serve for Mac - 5 / 20-user	159/309
Arc Solo Backup s/w for Dos / for Win	119/118
Fax Server NLM 3.01 - 5 / 10 / 25-user	355/639/999
Inoculan for Netware Server 4.0 Unlimited	585
Inoculan for Win'95 (Anti-Virus)	45
Inoculan for Win NT Workstation Client	46
Inoculan for Win NT Single Workstation	59

CISCO

CPA-2514A Router	2250
CPA-202 Personal Office ISDN - BRI w. NT1	425
CPA-751 ISDN BRI	625
CPA-751RO ISDN BRI Remote Office	995

CNet (Advanced Network)

930 PCI PNP Full Duplex	39
2000E+ PNP ISA Combo	28
4020ERP 2 Port Coax Repeater	165
8800TPC HUB: (8TP + BNC)	*(89)
8816TPC HUB: (16TP + BNC)	*(179)
8900TPC 12 Port SMNP Slave HUB	299
8910TPC 12 Port SMNP Master HUB	485

DANPEX

ArcNet & Token Ring products	Call
1616i SNMP Intelligent 16 Port Hub	635
1616M SNMP Manageable 16 Port Hub	395
2900P2 PCI Combo	*(49)
3270 Emulation for PC / for PS/2	175/195
5250 Emulation for PC / for PS/2	199/235
6200P2 PCMCIA (type II) BNC+TP	115
7000P3 32bit VLB Combo	*(75)
9400P3 32bit PCI Combo (DEC, full duplex)	*(69)
EN-800A Slim 8 Port HUB	115
EN-1600 16 Port HUB R.M.	*(195)
EN-2400 24 Port HUB R.M.	359
ER-200 2-port Repeater Coax	185
ER-400 4-port Repeater Coax	299
ET-510 Translator (UTP to AUI)	107
ET-509 Translator (UTP to BNC)	109
FE-1000TX ISA 100BaseTX 10/100	*(128)
FE-1400TX PCI 100BaseTX 10/100	*(129)
Print Server (2P 1S) NW / Unix / Appletalk	295
SE-H12TX 100BaseT 12 Port HUB	*(1295)
SH-7105 Switching Hub 5 Port 10BT + 1 Port 100TX	1495
TR-4016 Token Ring ISA	269
Token Ring MAU 8 Port	265

DCA

IRMA Workstation 2.1 for Dos / for Win	259/359
IRMA 3270 Conversion ISA	445
IRMA 3270 for Mac II / LC / SE	735

DEC

Bridges, Routers, Hubs	Call

DIGI INTERNATIONAL

Data Fire : Client ISDN (2B, 1D, 128Kb/s)	395
IMAC Bridge 1 ISDN / Dual IMAC	1165/1595
PC IMAC-ISA : Server, 1ISDN	525
PC IMAC/4-1 : Multi ISDN Expension	665
PC IMAC/4-2 / PC IMAC/4-4	1050/2075

FARALLON

Connection Products for PC & MAC	Call

FRONTIER

Super TCP / SuperWeb	Call

FUJITSU

PCMCIA Ethernet TP	135
PCMCIA Ethernet Combo	179
PCMCIA Ethernet TP + SCSI	295

HP

Advanced Stack 8 Port HUB 10BaseT	245
Advanced Stack 12 Port HUB	*(535)
- with SMNP	845
Advanced Stack 24 Port HUB	*(899)
- with SMNP	1295
J2382B Jet DirectEX (for HP 5P & others)	*(165)
J2547B Flash Simm for J2382B	89
J2550A Jet Direct TP (for HP 4 series)	299
J2552A Jet Direct Combo (for HP 4 series)	345
J2573A 10/100 VG Selectable ISA	169
J2585B 10/100 VG Selectable PCI	135
J2591A Jet DirectEX Plus Combo	295
J2593A Jet DirectEX Plus 3 Combo	439
J2980A Advance Stack 10/100 Lan Switch-16	5295
NETSERVER	call

IBM

ISDN Wave Runner ISA	495
Token Ring 16/4 Auto ISA 16	245

INTEL

EILA 8225 EtherExpress 32 Flash EISA Combo	219
EILA 8265 PRO/100 for EISA	*(199)
MCLA 8120 MCA TP	175
PILA 8520-TPO PRO/10 PCI oem / 5-Pack	*(85/415)
PILA 8465B PRO/100 PCI TP oem / 5-Pack	*(109/495)
- 20 Pack	*(1950)
PILA 8500 PRO/10 PCI Combo oem / 5-Pk	114/*(525)
EtherExpress Pro 10 bit cards :	
- PCLA 8200 BNC +AUI +TP oem / reg	89/115
- PCLA 8200 5 Pack	*(425)
- PCLA 8210 BNC + TP oem / reg	*(79/104)
- PCLA 8210 5 Pack	*(385)
- PCLA 8220 TP oem / reg	*(69/99)
- PCLA 8220 5 Pack	*(315)
- PCLA 8205 Flash BNC+AUI+TP	135
- PCLA 8215 Flash BNC + TP	125
- PCLA 8225 Flash TP	115
EC100TX Stackable 12 Port 100 TX Hub	*(1350)
- bundled with 10-pack PILA 8465B	*(2195)
ES100-TX Switching Hub	3395
LANdesk Server Manager Pro (LDSMV251)	1185
LANdesk Virus Protect 3.0 (SLAN1218V30)	665
LANdesk Workgroup Manager 25 Node (LEWMV10)	559
Netport Express Pro Ext / 3-pack	399/1050

LANPRO

EN2000PXA PNP Full Duplex Combo	*(35)
EN5100 PCI Combo	79
EN5200PX PCI Combo	*(44)
EP3020A Pocket Combo	99
HUB : 5 Port (5TP)	*(69)
HUB : 8 Port (8TP + BNC)	*(85)
HUB : 16 Port (16TP + BNC) Desktop	*(159)
HUB : 16 Port (17TP + 1AUI + 1BNC)	*(189)

MEGAHERTZ

XJ10BT PCMCIA Ethernet TP	*(125)
XJ10BC PCMCIA Ethernet Combo	*(165)
XJEM 3288T: Modem 28.8 + Ethernet TP	*(299)
XJEM 3288C: Modem 28.8 + Ethernet Combo	*(325)

MICROCOM

Lan Express 2000 4 Port	2550
Lan Express 2000 8 Port	3550

MICRODYNE (Eagle)

EH800E 8 Port HUB	*(139)
EH1200E 12 Port HUB	199
NE 10/100 : ISA / PCI	139/135
NE2000+ TP / 5 pack	*(75/329)
NE2000+ Combo / 5 pack	*(85/399)
NE2500 Combo, plug & play oem	*(55)
NE3200 EISA Coax / TP	445/445
NE3210 EISA 32 bit Combo	185
NE5500 32 bit PCI	*(109)
Synchronous .35 WAN Adapter / .35+	450/869

MICROTEST

CD-Now (w/o Netware)	415
CD-Now for Netware : 25-user / 50-user	489/695
Disc View Pro	265
Disc Serv (includes Disc View)	529

NATIONAL SEMICONDUCTOR

InfoMover NE2000+ Combo	69

NETWORTH

100 Base TX 8 Port HUB	1375

NOVELL

Lan Workplace 5.0 single / 10-user	195/1295
Netware 3.12 (3.5" FD)	
- 5 / 10 / 25-user	*(675/1395/1695)
- 50 / 100-user	*(1950/2995)
Netware 4.11 (new version)	Call
Netware Connect 2 Ports / 8 Ports	355/1375

INTERNET SOLUTIONS

- We build custom configured networks & systems for local and wide area networks
- Cable installation and repair services
- Email server / Proxy server / Internet service provider

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Netware Connect 32 Ports	3895
Netware Management Agents	335
Netware NFS v1.2C	2850
Netware NFS Service 2.1	2195
NFS Client for Lan Workplace	205
Personal Netware oem / reg	39/75
Unixware Personal Edition v2.01 - CD version	*(245)
Unixware SDK v2.1 - CD version	*(75)

PALINDROME

Network Archivist NLM 3.1A Backup	*(395)

SHIVA

LanRover/2E Plus 3.5 Async TP v.34	1695
NetModem/E 28.8 Ether BNC + TP	1295

SMC

Ether EZ Combo oem / reg	*(79)/115
Elite Ultra 16 Coax (8216B) oem.	*(69)
Elite Ultra 32 EISA Combo	215
Etherpower PCI TP (8432T) oem / reg	99/*(125)
Etherpower PCI Combo oem / reg	*(119/155)
Etherpower PCI 10/100 (9332DST) oem / reg	*(125/145)
Netware Boot ROM for Ethernet v1.3	29.50
Tiger HUB:100TX 8 Port / 16 Port	1195/2395
Tiger HUB:3212TC (12TP + BNC + AUI)	369
Tiger HUB:3314T 14 Port	*(475)
Tiger Switch XE 24 Port	6895

THOMAS CONRAD

TC5143T ISA TP / 6-Pack	79/395
TC5048T PCI TP / 6-Pack	145/635
TC5048T2 PCI Combo / 6-pack	175/785

WISECOM (5 yr warranty)

E300CT PCI 32 bit Combo	65
H008CAT 8 Port HUB (8TP + AUI + BNC)	*(89)
HI16CAT 16 Port HUB (16TP + AUI + BNC)	185
P200CT 16 bit ISA Combo, plug & play	35

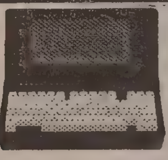
XIRCOM

PCMCIA CE3-10BT TP	*(139)
PCMCIA CE3-10BC Combo	*(175)
PCMCIA CE3-100BTX 10/100	225
PE3-10BT Pocket Adapter TP	*(259)
PE3-10BC Pocket Adapter Combo	*(279)
PS-CEM28-BT 28.8 Modem + Ethernet TP	*(269)
PS-CEM28-BC 28.8 Modem + Ethernet Combo	*(299)
PS-CEM33-BT / PS-CEM33-BC	299/345

CABLES & ACCESSORIES :

Custom-made Cables, Cross-Overs available	**call**

15. Notebook/ Laptop/ Desktop



Laptop memory can be special ordered. CALL!

ACER / NEC

Notebooks	call

AST (1 yr warranty)

Acentia 950/P-90: 8MB, 1.2GB, 10.4" Active	1795
Acentia 950/P120: 8MB, 800MB, 10.4" Active	1975
Acentia J50/P133: 8MB, 800MB, 14.4	2499
Acentia P50/P133: 8MB, 1.2GB, 4X CD, 11.3" Dual	3199

CHEM USA

ChemBook 5400: 8MB, 800MB, 6X CD, Dual Scan 11.3" - P100Mhz / P133Mhz / P166Mhz	2035/2145/2345
ChemBook 5580: 8MB, 800MB, 6X CD Removable, Dual Scan 11.3", Soft MPEG built-in	
- P100Mhz / P133Mhz	2199/2299
- P150Mhz / P166Mhz	2399/2499
ChemBook 6800: 8MB RAM, 800MB HDD, 8X CD, 12.1" TFT Active, 3 PCMCIA Slots	
- P100Mhz / P133Mhz	2895/2995
- P166Mhz / P200Mhz	3195/3395
All systems w. 16MB built-in	add 85
All systems w. 32MB built-in	add 250
Internal Battery / External Battery	85/175
Upgrades: - TFT 10.4" Active	225
- TFT 12.1" Active	595
- 1.08GB / 1.3GB HDD	add 50 /150
- 2GB HDD	add 450
With Win'95 loaded	add 90

DFI

(Includes 256KB cache, MPEG s/w, 1.44 FD, built-in sound, carrying case, AC/DC Adapter)

T7210: 11.3" Active, 8MB, 1.08GB HDD, - P100Mhz / P120Mhz / P133Mhz	2395/2445/2565
Systems with 16MB RAM built-in	Add 85
Systems with 24MB RAM built-in	Add 195
Systems with 32MB RAM built-in	Add 275
Upgrades: - fr 1.08GB to 1.3GB HDD	125
- 6X CD Rom	215

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LAPTOP:

Omnibook 5500CS/100 (F1331A): 16MB RAM, 810MB HDD, 16-bit Sound, 11.3" Dual Scan	2449
Omnibook 5500CS/100 (F1326A): 16MB RAM, 1.3GB, 16-bit Sound, 11.3" Dual Scan	*(2595)
Omnibook 5500CT/133 (F1321A): 16MB RAM, 1.35GB, 16-bit Sound, 12.1" Active	4575
Omnibook 5500CTS/120 (F1324A): 16MB RAM, 1.3GB, 16-bit Sound, 10.4" Active	*(3750)
Omnibook 5500CTS/133 (F1320A): 16MB RAM, 2GB, 16-bit Sound, 12.1" Active	4895

DESKTOP:

** monitor sold seperate **

Vectra VL4/133 (D4660B): P-133, 2.5GB, Mini T	*(1750)
Vectra XM4/133 (D3977A): P-133, 16MB RAM, 1.28GB, 1.44FD, Mid Tower, SVGA 1MB, HP Keyboard & Mouse	1745
Vectra XM4/166 (D4224A): P-166, 16MB RAM, 2.5GB, 1.44FD, Mid Tower, HP Keyboard & Mouse	2665
Vectra XU6/200 (D4347N): P-200, 32MB RAM, 2GB, SVGA 2MB, Ethernet 10/100, 4X CD, HP Keyboard & Mouse	4495

PANASONIC / SAMSUNG

Notebooks	call

SOTEC

– Ultra Light Weight (only 4.4lbs no main unit) – P-133Mhz, 11.3" Active, 256k Burst SRAM, SVGA 1MB, 16MB EDO, 1.44 Removable FD, 6X CD Rom, built-in 10BaseT Lan, 16-bit Sound, retractable Stereo speakers w. Sub-Woofer, Triton chipset :

- with Toshiba HDD 1GB / 1.3GB	3995/4099

TEXAS INSTRUMENT

TravelMate 6030: P-133, 16MB RAM, 1.35GB HDD, 12.1" Active, 28.8 Modem	*(4295)

TOSHIBA

_T110CS_	*(1299)
T420CDT	*(2999)
T500CDT	*(4295)
T720CDT	*(5495)

OTHERS

US ROBOTICS: Pilot 1000 Pocket Organizer	279
US ROBOTICS: Pilot 5000 Pocket Organizer	355
- 1MB upgrade	159
- Cable for Mac	25
- Pen 3-pack	7.95

16. POWER SUPPLY

AMERICAN POWER CONVERSION

BK-280 Back-UPS (200W)	105
BK-400 Back-UPS (300W)	154
BK-450 Back-UPS (325W)	179
BK-600 Back-UPS (425W)	239
BK-900 Back-UPS (650W)	345
BP-280 Back-UPS Pro PNP	159
BP-420 Back-UPS Pro PNP	235
BP-650 Back-UPS Pro PNP	289
SU-450 Smart-UPS (486, 586 WS)	285
SU-700 Smart-UPS (486, 586 FS)	345
SU-700 Net (w. Power Chute Plus)	399
SU-1000 Smart-UPS (486, 586, FS & WS)	485
SU-1000 Net (w. Power Chute Plus)	535
SU-1400 Smart-UPS (950W)	625
SU-1400 Net (w. Power Chute Plus)	665
SU-2200 Smart-UPS	1065
SUVS-420 Smart Value Server	239
SUVS-650 Smart Value Server	295
SUVS-1000 Smart Value Server	415
PowerChute Plus :	
- for Novell	65
- for OS/2, Lan Server, 3 Com	75
- for Unix / Xenix	99
- for Win'95 / for Win NT	55/69
Surge Arrest (PER 7)	17.99
Surge Arrest w. TEL (PER 7T)	24.99
Surge Protector (P7)	9.99

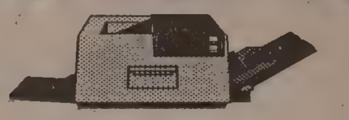
PC POWER COOLING

CPUcool for 486 or 586-75 / 133 (19°)	19.95
CPUcool for 586-150 / 166 (1.9W)	20.95
CPUcool for 586-180 / 200 (2.3W)	22.95
Silencer Slim 230 for Baby or Mid Tower	*(75)
Silencer 230 Full Tower	95
Silencer 270 :	
- Slim for Baby or Mid Tower	119
- for Full Tower	135
Standard 230 for Full Tower	85
Turbo Cool 300 :	
- for Slim (baby or mid tower)	*(115)
- for Full Tower	139
Turbo Cool 400 :	
- for Full Tower / for Slim	*(185/185)
Turbo Cool 450 for Full Tower (heavy duty)	285
Turbo Cool 550 for Full Tower (heavy duty)	375
Twinpower 900 (redundant)	895

OTHERS

235W for ATX	49
250W for Baby AT	45
250W for Baby or Mid Tower	45
250W for AT / for Full Tower	47/49
300W for Full Tower	69
400W for Full Tower	115
500W for Full Tower	235
550W for UPS	279
1200W for UPS	659
RPT-600 300W Redundant for Tower	179

17. PRINTER / PLOTTER



Printer memory available. Please call for $

BROTHER

HL-720 True 600dpi, 6ppm, Laser	365
HL-730-DX True 600dpi, 6ppm, Laser	445
HL-960 True 600dpi, 12ppm, Laser	995
HL-1260 True 1200dpi, 12ppm, Laser	1225
MFC-690 5-in-1, fax/ copy/ scan/ PC fax/ print	269
MFC-890 6-in-1, fax/ copy/ message center / scan/ PC fax/ print	299
MFC-4550 5-in-1, 600dpi, Laser, Fax	799

CANON

BJ-10SX w. Sheet Feeder (ASF-6420)	*(145)
BJC-70 Color, 720x360dpi, 346cps	*(299)
BJ-210 Color, 360x360dpi, 25ppm	175
BJC-620 Ink Jet, Color, Par, 720dpi	385
BJC-4100 Ink Jet, Color, 360x720dpi	*(245)

EPSON

FX-870 9-pin	299
FX-2170 9-pin, Wide (max. 6 copies).	*(399)
LQ-570 Plus 24-pin	259
LQ-870 24-pin, Par	455
LQ-2170 24-pin, Wide	549
Stylus 500 Color Inkjet 720x720dpi	*(279)
Stylus Pro Color, laser quality	*(385)
Stylus Pro XL	1695
Stylus 1500 720dpi, fit A - C size paper	925
Accessories :	
Black Ink for II & IIS	19.95
Color Ink for II & IIS	29.95

HP

Color Laser Jet C3961A	5699
Desk Jet 680C	299
Desk Jet 820CXi / 870CXi	389/495
Desk Jet 1600C PC, Mac	1299
Desk Jet 1600CM Postscript PC, Mac	1919
Laser Jet 4V / 4MV (B size)	1895/2695
Laser Jet 5 / 5Lfs	1235/459
Laser Jet 5N / 5M	1475/1689
Laser Jet 5P / 5MP	849/945
Laser Jet 5Si / 5SiMX	2699/3750
Laser Jet 6P / 6MP	745/889
Office Jet 330 4-in-1, print/ fax/ scan/ copy	545
Portable 340 ($50 Rebate)	299
PLOTTERS	
Design Jet 350C: D Size / E Size	2195/2850
Design Jet 750C: D Size / E Size	5095/6095
Design Jet 755CM: E Size	9795
Accessories :	
Color Kit C3067A for 540 / C4533A for 600	*(37/39)
500 Sheet Feeder C3921A for 5	225
Duplex C3762A for 5Si / 5SiMX	479
Duplex C3920A for 5 / 5N / 5M	475
Lower Cassette C3760A for 4V / 4MV	325
Postscript C3169A for 5Si	435
Postscript C3918A for 5 / 5N	335
Power Envelope Feeder C3927A for 5	259
Printer Pals for 850C / for 4, 4L, 5L	169 ea.
Ink Cartridges :	
Black (HP51626A) for 500, 540, 560	24.45
Color (HP51625A) for 500C, 550C, 560C	26.95
Black (HP51629A) for 600, 660	24.95
Color (HP51649A) for 660C	29.25
Black (HP51645A) for 870C, 855C, 1600C	*(18.95)
Color (HP51641A) for 870C, 855C, 1600C	*(19.95)
Black (HP51640A) for 1200C	23.95
Cyan (HP51640C) for 1200C	27.95
Magenta (HP51460M) for 1200C	27.95
Yellow (HP51640Y) for 1200C	27.95
Black (HPC3105A) for Color Laser Jet	7.95
Cyan (HPC3102A) for Color Laser Jet	32.95
Magenta (HPC3104A) for Color Laser Jet	32.95
Yellow (HPC3103A) for Color Laser Jet	32.95
Toner Cartridges :	
Toner (HP92295A) for II, IID, III, IIID	75
Toner (HP92275A) for IIP, IIP+, IIIP	74
Toner (HP92291A) for IIISi, 4Si, 4SiMX	129
Toner (HP92298A) for 4, 4M, 4+, 4M+, 5, 5N, 5M	109
Toner (HP92274A) for 4L, 4ML, 4P	65
Toner (HPC3900A) for 4V, 4MV	139
Toner (HPC3906A) for 5L, 5ML	59
Toner (HPC3903A) for 5P, 5MP	75

LEXMARK (IBM printers)

Optra E 600dpi, 6ppm, 1MB	545
Optra C 600dpi, 3ppm color, Postscript, 8MB	5795
Optra LX+ 1200dpi, 16ppm, Par, Postscript, 4MB	1895
Optra LXi+ 1200dpi, 16ppm, 8MB, Postscript, w. Ethernet Combo	2595
Optra R+ 1200dpi/8ppm, Ser & Par, 2MB, Postscript, 600dpi/16ppm	1295

MICROTEK

TrueLaser MTP-306 35 fonts, 6ppm, 2MB	*(599)

OKIDATA

ML184T 9 pin, Par (max. 5 copies)	239
ML320T 9 pin (max. 5 copies)	335
ML590 24-wire (max. 5 copies)	449
ML591 24-pin, Wide (max. 5 copies)	625
OKIJET 2010 Color, 600dpi	*(245)
OKIPAGE 4W Laser 4ppm	*(299)
OL600E Laser	389
OL610E Laser	495
OL610e/PS Laser Postscript	*(725)
OL1200 Laser 12ppm, 600x600dpi, 2MB	*(949)

PACIFIC DATA

ProTracer II Ink Jet (CAD Plotter)	695
Accessories:	
HP-GAL Emulation Card	375
Ink Cartridges (BJI-6425)	19.50
Postscript Emulation Card	375
Sheet Feeder I / Sheet Feeder II	99/95

PANASONIC

1150 9-pin, 55dBA	139
2130 Quiet Dot Matrix	199
2135 Quiet Dot Matrix, Color	255
3123 24 pin, Quiet, Scalable Fonts	259
3124 24 pin, Scalable Fonts, LCD	329
3626 24 pin, Quiet Wide-carriage	399
J250 Ink Jet, 300dpi, 128 nozzle printhead	*(259)
4440 Laser 10ppm	*(855)
4455 Postscript 11ppm	1695
5400 Led Postscript 4ppm	345
KXP-6100 600dpi 6ppm	399

SEIKO

Smart Label Printer EZ30	145
Smart Label Printer Pro	225
Standard Label (2 rolls)	7.95

SUMMAJET (Plotter)

1324M Mono A - D Size	1990
1324C Color A - D Size	2250
1336M Mono A - F Size	2465
1336C Color A - F Size	2695
D Size Stand / E Size Stand	325/365

18. PROJECTOR

3M, NEC

projection products	Call

PROXIMA

Desktop DP2810 LCD 8.4" 33mm 640 x 480	3850
Desktop DP5100	5850
Ovation 810 LCD 8.4" 2M Color, 640 x 480	2065
Ovation 920 10.4" LCD 16.7M 1280 x 1024	8150
Ovation+ 840 8.4" LCD 16.7M 800 x 600	2995
Ovation+ 846 10.4" LCD 16.7M 800 x 600	3895
Portable Overhead A653 3000 Lumens	475
Portable Overhead A655 4000 Lumens	799

19. SCANNER

AVISION

AV100 Color Scanner	299

DELRINA

WinFax Pro Scanner	*(299)

FUJITSU

Scanning products	Call

HP (flatbed)

ScanJet 4C Color & Gray Scale w. Kit	859
- Auto Document Feeder	475
- Transparency	635
Scanjet 4P Color/ Grayscale	495

LOGITECH (hand)

Page Scan Color	*(295)
Scanman Color + PhotoShop L.E.	189

MICROTEK (flatbed color)

Scan Maker III w. TMA & Photoshop OCR	*(1999)
Scan Maker E3 600dpi, Color, PhotoImpact OCR	*(315)
Scan Maker E6 1200dpi, w. Imagester OCR	565
Scan Maker E6 Pro 1200dpi w. Photoshop OCR	750
Slide 35T 1800dpi, 16.8M Color, w. Photostar	725

STORM TECHNOLOGY

Easy Photo Smartpage Color Scan	269

VISIONEER

PaperPort VX for Win (HP4S design)	*(269)

20. TAPE BACKUP

COLORADO

DJ-35D (Jumbo 350) 340MB Int	79
DJ-50C (Jumbo 1400) 1.3GB Int w. Controller	175
PT-25 PowerTape 2GB 300Kb/s Int	965
PTE-25 PowerTape 2GB Ext SCSI	1095

EXABYTE

EXB-2501 1 - 2GB SCSI-2 Int / Ext	475/629
Eagle 96 3.2GB Int (Floppy I/F)	*(175)
Eagle TR3 (603003-000) 3.2GB w. accel card Int	245
Eagle TR3 (603003-004) 3.2GB Int	159
EXB-8205XL 8mm Dat. 3.5 - 7GB Int / Ext	1275/1499
EXB-8505XL 8mm Dat. 7 - 14GB Int / Ext.	1899/2199
EXB-8700E 8mm 7 - 14GB Ext.	1465
EXB-8700LT 8mm 5 - 10GB Ext.	*(1045)

HP

C1534 4mm Dat. 2-4GB SCSI Int	*(549)
C1536 4mm Dat. 4-8GB SCSI Int	*(649)

*(price) .... SPECIALS , while supplies last

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C1533 4mm Dat 8-16GB SCSI Int	845
Colorado T1000 850MB Travan w. cartridge Int	*(139)
Colorado T1000 850MB, printer port Ext	175
Colorado T3000 3.2GB Travan w. cartridge Int	189
Colorado T4000S 4GB Travan Int	359
HP Mounting Frame to 5.25" for C1533	27
HP Mounting Frame to 5.25" for C1534	25
HP Mounting Frame to 5.25" for C1536	25

IOMEGA

Ditto 800MB Travan Int	125
Ditto 800MB Travan Parallel	145
Ditto 2GB Int / Ext	165/215
- 2GB Tape / 3-pack	19.95/57
Ditto 3200MB (QIC 3010/ 3020) Int	235
Ditto 3200MB (QIC 3010/ 3020) Parallel	289

NOVASTAR (software)

Novaback CD Bundle (multi-platform)	67
Novaback 4.58 for Dos	59.50
Novaback for Windows SCSI / QIC	56/59
Novaback for Win '95 SCSI / QIC	55/58
Novabakc for OS/2	58

SEAGATE

CNR-4320RT 2GB Int w. 5.25" rail	675
CNR-4326NP 4mm 8GB Dat. SCSI Int 3.5"	815
CNR-4326RP 8GB w. 5.25" rail	835
CNR-4350XT 2GB Ext	685
CNR-4324RP 2 - 4GB SCSI Int	645
Tape Stor 350MB Int	*(69)
Tape Stor w. cartridge 420MB Int	139
Tape Stor w. cartridge 800MB Travan Int	139

Software (Arcada):

Back Up for Windows '95	65
Back Up Exec for Netware WS 7.0	89
Back Up Exec for Netware Enterprise 7.11	845
Back Up Exec for Netware Single Server	435
Back Up Exec for Netware 1 Server 25-user	315
Back Up Exec for Windows NT Enterprise 6.11	795
Back Up Exec for Win NT Server 6.11	439
Back Up Exec for Win NT Workstation	189

OTHERS

MYTAPE : 1.6GB Travan Int	159
TEAC : FT-3008TR 800MB Travan Int	99

21. VGA CARD

ATI

3D Expression 2MB DRAM	149
Graphics Pro Turbo 2MB PCI	*(189)
Graphics Pro Turbo 4MB PCI 1600	*(289)
Video Expression 2MB PCI	*(99)

DIAMOND

Stealth 3D 2400XL 4MB PCI	185
Stealth 64 1MB DRAM PCI	75
Stealth 64 2MB DRAM PCI	95
Stealth Video 64 2MB VRAM PCI, upgradable	159
- 2MB upgrade	99
Stealth Video 64 4MB VRAM PCI	259

LEAKTEK

M-Mate Pro II (external video encoder)	99
Winfast 280 VGA & MPEG-1 w. 1MB / 2MB	145/165
Winfast 430 VGA 2MB VRAM	135

MATROX

IMP Plus 220 2MB PCI.	*(165)
Millenium PCI w. 2MB / 4MB	189/269
- upgrade 2MB / 4MB / 6MB	99/179
- upgrade 6MB oem / reg	*(239)/249
Mystique 3D PCI w. 2MB	169
- upgrade 2MB	85
Mystique 3D PCI w. 4MB	239

NUMBER NINE

FX Motion 771 VRAM PCI 2MB oem	*(225)
FX Motion 771 VRAM PCI 4MB oem	*(329)
Imagine 128 Series II 4MB PCI	625

SPIDER

Lynx 64 64 bit Accelerator 1MB PCI	49
Tarantula 64 MK II 2MB VRAM VLB / PCI	129/129
Tarantula 64 MK II 4MB VRAM VLB / PCI	179/179
Tarantula Lite 64 DRAM w. 1MB / 2MB	49/69
Tarantula 3D DRAM PNP w. 2MB / 4MB	105/129

OTHERS

Boca Voyage Movie Player Accelerator VGA	285
Movie Plus 1100 MPEF Decoder	199
Storm Technology: Easy Photo Reader Parallel	195
Storm Technology: Easy Photo Drive ISA Card	195
Televiewer / Televiewer Plus	139/189
Trident 8900 1MB ISA	49
Trident 9680 1MB PCI	49
Tvator Pro PC/MAC VGA to NTSC Scan Converter	159
Tvator Remote Pro VGA to NTSC Scan Converter	289
V-Mate Pro (video encorder : PC to TV)	189

Conferencing & Video:

Epson Photo PC Color Digital Camera	475
Howard Video Camera	295
Intel Smart Video Recorder Pro	399
Intel ProShare Premier s/w	259
Intel ProShare Presenter	call
Intel ProShare Conferencing Video System	call
Kodak DC50 Digital Camera Zoom Lens	*(785)
Quick Cam for Win	99
Quick Cam Color for Win	229
Snappy (video Snapshot)	185
Video Logic Captivator	135
Vision Time Conferencing s/w	44.95
Vision Time Gold: s/w + video capture	135
Vision Time Platinum: Gold + DSVD Modem	399
Vision Time Diamond: Platinum + Camera	645

SOFTWARE

1. PC SOFTWARE

ADOBE

FrameMaker 5.11 - CD+FD	559
- upgrade - FD / CD	195/199
Illustrator 4.1 for Win & Win'95	*(299)
Pagemaker 6.0 for Win oem / reg	*(185/259)
Pagemaker 6.5	545
Photoshop 3.05 for Win 32 oem / reg	*(195/299)
Photoshop 4.0	549
Premier 4.2 for Win - FD/CD	*(499)

AUTODESK

Animator Studio 1.1	249
AutoCAD Lite 2.0 / for Win'95	*(255)/409
Autosketch 2.0 for Win / for Win'95	135/89
Generic CADD 6.1	69

BORLAND

C++ 5.0 for Dos, Win, Win32 - CD	325
C++ 5.0 Developer Suite	425
Delphi competitive upgrade	*(175)
Delphi 2 - new user single online CD	88
Delphi Desktop 2 / upgrade	325/179
Delphi Developer 2 Kit / upgrade	535/269
Paradox 5.0 for Win oem / reg	39/275
Paradox 7.0 for Win'95 & NT / upgrade	285/95
Power Pak for Dos	99
Sidekick 2 for Win	45
Turbo Assembly 5.5	115
Turbo C++ for Dos	92
Turbo C++ 4.5 fo Win - CD	79
Turbo C++ Visual Edt. for Win	79
Visual dBase 5.5 for Win / upgrade	269/118

COREL

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Computers And Education *continued. from page 116*

Surivival Skills

One vital skill that computers helped Will acquire, according to social theorist Douglas Rushkoff, is managing the chaos of constant change. Rushkoff, in his new book *Playing the Future*, contends that what adults react to in fear is, in fact, nothing more than their uncomfortable witnessing of the emergence of a new, more-evolved generation.

"The degree of change experienced by the past three generations rivals that of a species in mutation." Rushkoff says. "Today's 'screenager'—the child born into a culture mediated by the television and computer—is interacting with his world in at least as dramatically altered a fashion from his grandfather's as the first sighted creature did from his blind ancestors, or a winged one from his earthbound forebears.

"Human beings have evolved significantly within a single creature's lifespan, and this intensity of evolutionary change shows no signs of slowing down. What we need to adapt to, more than any particular change, is the fact that we are changing so rapidly. We must learn to accept change as a constant. Novelty is the new status quo. This naturally contradicts much of what we hold dear. In fact, it calls for us to abandon most of it."

In Rushkoff's view, adult society tries to adhere to an ideal of simplicity that is now long dead. "The models and rules we've been using to understand our world have always been based in making things look simple, in reducing things down to the least common denominator," Rushkoff recently told the *Los Angeles Times*.

"By looking at things in all of their complexity, in all of their chaos, really, we end up doing much, much better."

The real world isn't linear, like a classroom lecture, Rushkoff says, it's "multitasking," dealing simultaneously with email, phone calls, a written report, a live conversation. Computers, Rushkoff says, are uniquely suited to teaching students how to deal with multitasking.

"I wouldn't express it in terms of physical dexterity so much as in terms of their attention range—their ability to communicate more rapidly. I think they can scan email messages with their eyes and brains faster than a middle-aged businessman. I think that they're more able to deal with a Windows 95 screen that has three programs working at once on the same graphic. I think that kids are better at keeping track of more than one stage of development of a project. Those are the kinds of skills that new technologies are demanding of people in the workplace."

Computers, unlike television, are two-way communication devices that are reviving the lost art of personal communication, Rushkoff contends. "We don't really know how to communicate directly anymore; we're afraid of one another. So the computer is very liberating in that respect."

While he's sometimes accused of Pollyannaish naivete, Rushkoff acknowledges that the older, linear generations have a skill "screenagers" lack: "They lose the ability to carry a single project through to its end. And this is where adults can help."

"I think the best thing adults can learn from their kids right now is that technology is not a set of shackles. Every wire that's put into their home and every piece of technology they have is not just further victimization, but is actually an avenue of expression for themselves."

The Battle With Bureaucracy

Before parents can learn, the children must. Children need lots of time on the computer. If there is one central theme that emerges from talking with educators, researchers, parents and students, it is that students need lots of time on the computer, not mere once-a-week exposure in a lab.

> **"Home schooling, by its very nature, is more solitary, less social than traditional schooling," says teacher Michael Salinger of his son's experience. "But telecommunication has enabled Kevin to add an important social dimension to his schooling."**

As Richard Abrahams, director of academic computing at Santa Rosa Junior College (and parent of three computer-using youngsters) sardonically put it, "schools allot fifteen hours a week for them to learn football, basketball and other activities. Why don't we devote as much time to giving them informational fluency? Both activities require extraordinary repetition and practice."

Part of the problem, says Frederick Knirk, professor of educational psychology and technology at USC's School of Education, is that administrators and teachers don't seem to realize that teaching is part of what he terms the "information handling" industry.

"Every other communication industry is high-tech these days," Knirk says, "except education."

Knirk, who has been designing educational systems for the Detroit and Los Angeles schools, and for such disparate institutions as the US Navy's "Top Gun" flight school and Toyota Inc., says public education, for the most part, seems ominously impervious to change.

"I'm sorry to say it, but the research shows that most of the success stories in teaching are attributable to single, excited, motivated teachers," he says, citing Jaime Escalante, the celebrated East Los Angeles high school math teacher whose inspirational story was made into the movie *Stand and Deliver.*

"Escalante eventually got tired of the lack of support from administrators and other teachers," Knirk says, "and moved to Sacramento. Too often that resistance happens to teachers who try to use computers in education too. There are too many instances of individual teachers who are excited, somehow get funds and equipment, but eventually leave. Too often, the equipment then goes into a closet and the institution regresses. Somehow schools must be more involved in innovation."

Knirk points to schools such as Blackstock Junior High in Port Hueneme, CA, north of Los Angeles, where aggressive teachers and administrators have scrounged for funds, bought microcomputers and re-engineered 90% of the instruction in general science, English and social science to be taught using the new technology. As in Will Wright's case, the old shop classes have been converted to teach CAD/CAM.

"The kids like the courses; the teachers, if trained, like them," Knirk says. "Test scores seem to be at least as good and, equally important, students are happy. But you can't just add technology to what already exists. We need to re-think everything about school, like the outmoded notion of 50-minute periods and unconnected teaching. Nothing is discrete; it's all connected." ■

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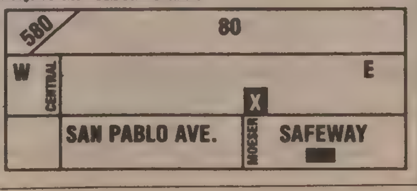

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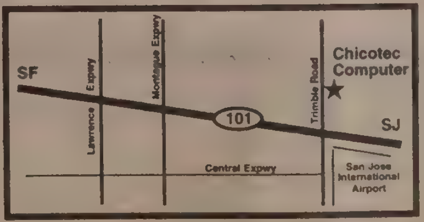

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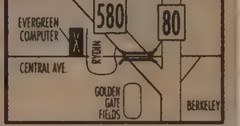

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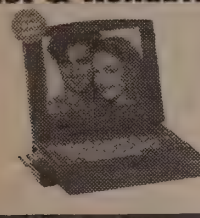

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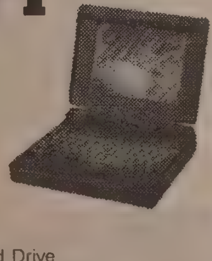

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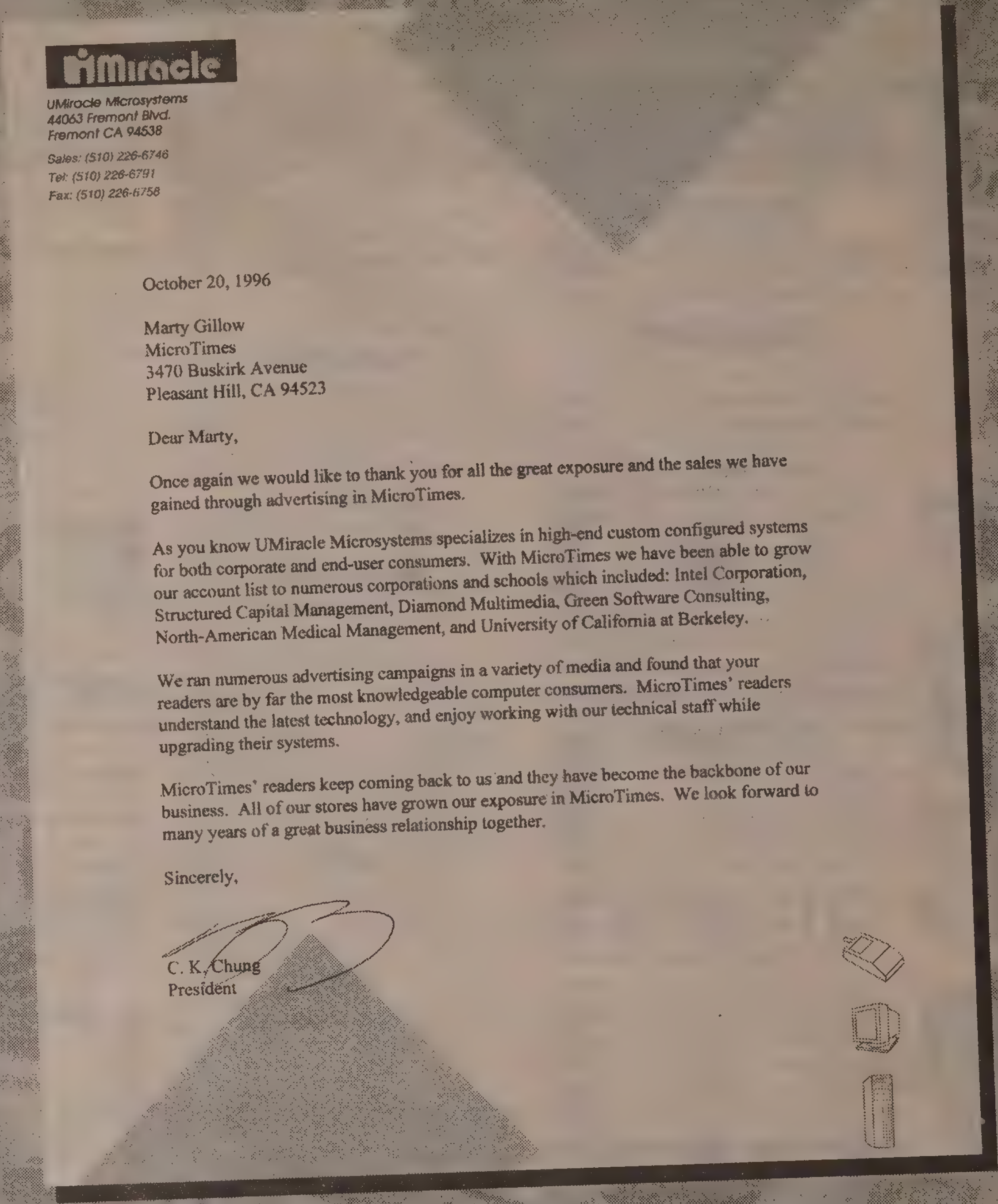

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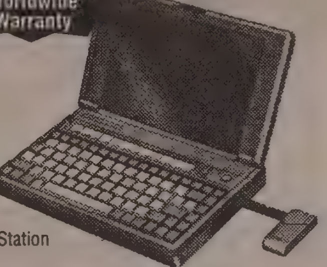

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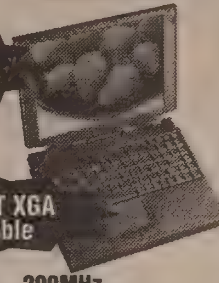

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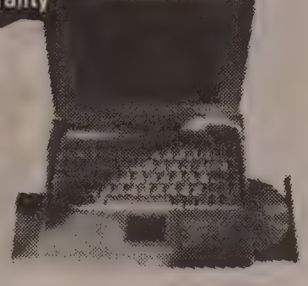

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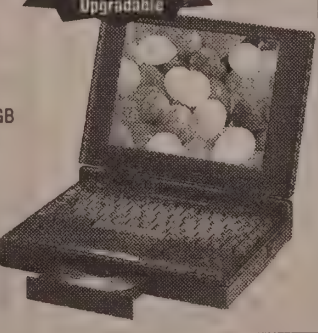

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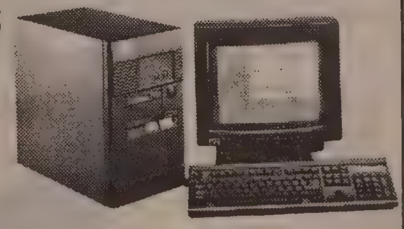

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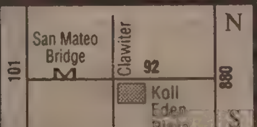

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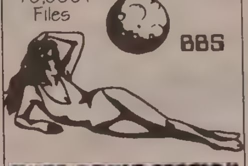

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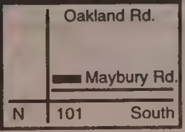

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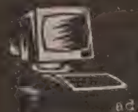

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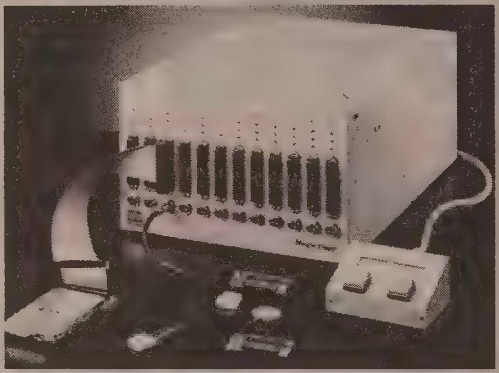

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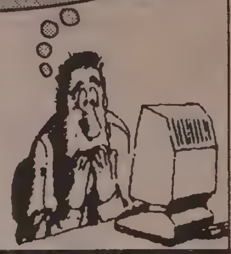

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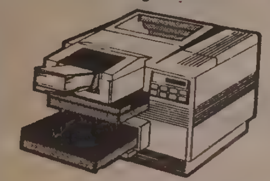

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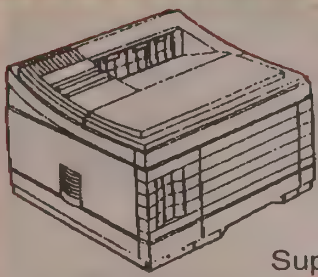

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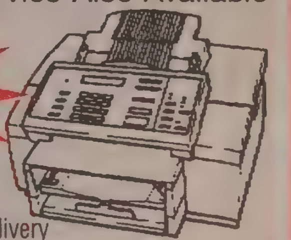

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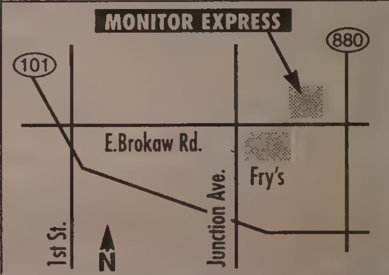

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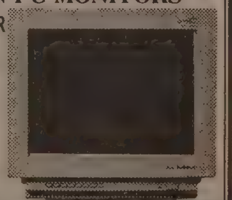

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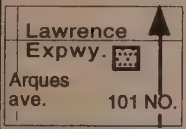

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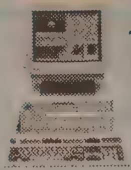

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Positive Vibrations

continued from page 130

To veer back a little with some short tech questions. Do you surf the Net?
No. I have Dianne Garcia [office manager and resident techie]. I ask, "Can you find out about Metatron?" so she goes out there and starts finding out about Metatron.

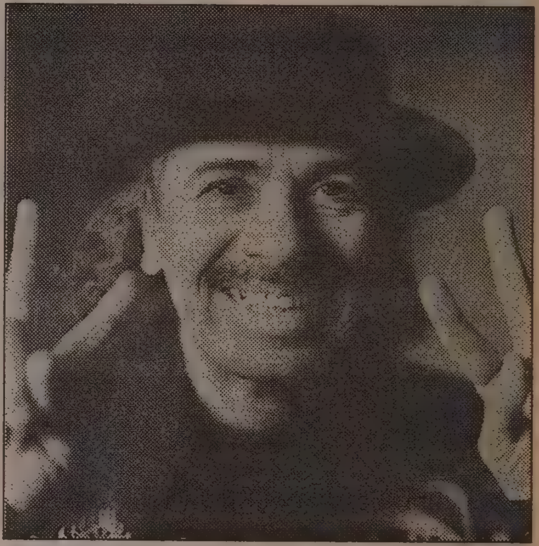
You've been in the music biz for thirty-some years. During that time the technology of instruments and making music has changed a lot. The last five years has seen a big leap with computers. How do you keep up with the changes? How do you integrate new technologies into what you do? If we just look around this room, it's full of technology.
It's kind of like a balance. It's supposed to be making things a little bit more immediate. For me as an individual, I can see the pros and cons of it. For me there is nothing more immediate than a tone. And the tones that I heard the best are from the '60s—Jimi, Coltrane. Now they do all kinds of things to it, but it hasn't gotten better as far as what I heard before. I heard it just coming out of Miles Davis' trumpet, right from his horn to my flesh. From Jimi before they had monitors, straight out of his guitar into me.

In certain ways the sound hasn't gotten better. It's gotten worse, it's gotten more synthetic. I am talking about the technology of musicianship. This is why a lot of people are going back to rawness, to less synthesizers. Just plug in and no pedals. That flesh sound instead of like a metal sound.

But I do see that, on the positive side, the technology is making things more available with promoters, like promoters in Brazil they want us, so it's immediate. Somebody sends a fax. The information is more immediate, in that kind of way. As far as tonality, it hasn't gotten any better.

The technology is for the outer communication. The inner communication is still very immediate. It's a certain sound that only certain musicians to this day have. You can plug into a million computers, and you are still not going to get one note like Miles or Coltrane or Jimi Hendrix. That comes from a person's soul. Thank God that the computer cannot measure the deepness of the soul. I am not closed to it. But I understand that there are two different things, completely. One is the spirit and one is the flesh. The computer is the children of the flesh. The spirit is something else. I lean more toward the spirit in man because it is more illumining and it is love. The computer doesn't show love, yet. Maybe someday. The computer just shows logic...time is money, you are wasting my time. That's logic. The spirit is for the highest good of all. I think it is going to be here like this for awhile, until somebody can find how to make the computer have compassion, how to make a computer feel what a child feels.

Clearly computers are tools and it is the responsibility of the people who use them to do something positive with them. Computers can get in the way of the message.
I guess the best way to use it is for positive information. ■



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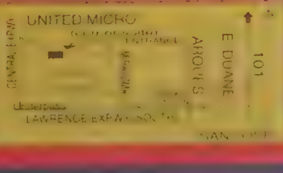

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P5-100/256K PCI (Intel Zappa)	$758
P5-120/256K PCI (Intel Zappa)	$788
P5-133/256K PCI (Intel Zappa)	$838
P5-100/256K PCI (Triton VX)*	$728
P5-120/256K PCI (Triton VX)*	$748
P5-133/256K PCI (Triton VX)*	$808
P5-150/256K PCI (Triton VX)*	$868
P5-166/256K PCI (Triton VX)*	$968

* Intel Endeavor/Atlantis II M/B..+$60/70
* Intel Marl/Tucson M/B ATX ..+$80/$110

UPGRADES
See Page 3 of Our Ad for All Upgrade Prices

Why do customers keep buying from HI-TECH USA? Simply because we deliver the best value.

HI-TECH USA SUPER SALE

•BASIC SYSTEM: MOTHERBOARD & CPU, 4MB RAM, IDE WITH I/O, 1.44MB FDD, CASE WITH POWER SUPPLY, AND 101-KEY KEYBOARD.

	MOTHER-BOARD	MOTHER-BOARD WITH CPU	* BASIC SYSTEM W/4MB RAM	* BASIC SYSTEM W/8MB RAM	* BASIC SYSTEM W/16MB RAM	* BASIC SYSTEM W/32MB RAM	*BASIC SYS W/4MB RAM +630MB HDD + 1MB SVGA CARD & FREE PC DOS { 850MB HDD ADD $20 }	*BASIC SYS W/8MB RAM +850MB HDD + 1MB SVGA CARD & FREE PC DOS { 1.2GB HDD ADD $40 }	*BASIC SYS W/16MB RAM +1.2GB HDD + 1MB SVGA CARD & FREE PC DOS { 1.6GB HDD ADD $30 }	*BASIC SYS W/32MB RAM +1.6GB HDD + 1MB SVGA CARD & FREE PC DOS { 2.0GB HDD ADD $30 }
DUAL PP-200C PCI (SUPER MICRO M/B)	$408	$2,168	N/A	$2338	$2,378	$2,458	N/A	$2,498	$2,588	$2,688
PP-200C PCI (INTEL VENUS M/B) ATX	268	1,138	N/A	1,,338	1,378	1,458	N/A	1,498	1,588	1,688
PP-180C PCI (INTEL VENUS M/B) ATX	268	758	N/A	958	998	1,078	N/A	1,118	1,208	1,308
P5-200C PCI (INTEL MARL M/B) ATX (Tucson: +$40)	138	638	N/A	838	878	958	N/A	998	1,088	1,188
P5-166C PCI (INTEL MARL M/B) ATX (Tucson: +$40)	138	508	N/A	708	748	828	N/A	868	958	1,058
P5-150C PCI (INTEL MARL M/B) ATX (Tucson: +$40)	138	398	N/A	598	638	718	N/A	758	848	948
P5-133C PCI (INTEL MARL M/B) ATX (Tucson: +$40)	138	338	N/A	538	578	658	N/A	698	788	888
P5-120C PCI (INTEL MARL M/B) ATX (Tucson: +$40)	138	288	N/A	488	528	608	N/A	648	738	838
P5-166/256C PCI (INTEL ATLANTIS II M/B)	198	578	$708	728	768	848	$868	888	978	1,078
P5-150/256C PCI (INTEL ATLANTIS II M/B)	198	468	598	618	658	738	758	778	868	968
P5-133/256C PCI (INTEL ATLANTIS II M/B)	198	408	538	558	598	678	698	718	808	908
P5-120/256C PCI (INTEL ATLANTIS II M/B)	198	358	488	508	548	628	648	668	758	858
P5-100/256C PCI (INTEL ATLANTIS II M/B)	198	348	478	498	538	618	638	658	748	848
P5-166C/256C PCI (INTEL ENDEAVOR M/B)	198	578	708	728	768	848	868	888	978	1,078
P5-150C/256C PCI (INTEL ENDEAVOR M/B)	198	468	598	618	658	738	758	778	868	968
P5-133C/256C PCI (INTEL ENDEAVOR M/B)	178	378	508	528	568	648	668	688	778	878
P5-120C/256C PCI (INTEL ENDEAVOR M/B)	178	328	458	478	518	598	618	638	728	828
P5-100C/256C PCI (INTEL ENDEAVOR M/B)	178	318	448	468	508	588	608	628	718	818
P5-166C/256C PCI (INTEL ENDEAVOR II M/B)	168	548	678	698	738	818	838	858	948	1,048
P5-150C/256C PCI (INTEL ENDEAVOR II M/B)	168	438	568	588	628	708	728	748	838	938
P5-133/256C PCI (INTEL ENDEAVOR II M/B)	158	368	498	518	558	638	658	678	768	868
P5-120/256C PCI (INTEL ENDEAVOR II M/B)	158	318	448	468	508	588	608	628	718	818
P5-100/256C (INTEL ENDEAVOR II M/B)	158	298	428	448	488	568	588	608	698	798
P5-133/256C PCI (INTEL ZAPPA M/B)	128	338	468	488	528	608	628	648	738	838
P5-120/256C PCI (INTEL ZAPPA M/B)	128	288	418	438	478	558	578	598	688	788
P5-100/256C PCI (INTEL ZAPPA M/B)	128	268	398	418	458	538	558	578	668	768
P5-75/256C PCI (INTEL ZAPPA M/B)	108	228	358	378	418	498	518	538	628	728
P5-166/256C PCI (TRITON VX)	90	468	588	608	648	728	748	768	858	958
P5-150/256C PCI (TRITON VX)	90	368	488	508	548	628	648	668	758	858
P5-133/256C PCI (TRITON VX)	90	308	428	448	488	568	588	608	698	798
P5-120/256C PCI (TRITON VX)	90	258	378	398	438	518	538	558	648	748
P5-100/256C PCI (TRITON VX)	90	238	358	378	418	498	518	538	628	728
6X86-P166+/256K PCI	98	268	388	408	448	528	548	568	658	758
6X86-P150+/256K PCI	98	218	338	358	398	478	498	518	608	708
6X86-P133+/256K PCI	98	198	318	338	378	458	478	498	588	688
5X86-133/256C VLB (PCI: ADD $15)	68	104	224	244	284	364	384	404	494	594
486DX2-80/256C VLB (PCI: ADD $15)	68	88	208	228	268	348	368	388	478	578

SEE PAGES 3 & 4 OF OUR AD FOR ALL OF OUR UPGRADE PRICES

HI-TECH BEST BUY SYSTEMS

- **8MB RAM** (16MB/32MB: Add $Call)
- **630MB EIDE** (850MB/1.2GB: Add $20/$50)
- 1.44MB 3.5" Floppy Drive
- PCI or VLB Controller with I/O
- Enhanced Case w/Power Supply
- PCI or VLB SVGA Card w/1MB
- Mitsumi Keyboard for Windows 95
- Free PC DOS and Mouse w/pad
- Monitor Sold Separately (please see next page)

486DX2-80/256K VLB or PCI	$398
5X86-133/256K VLB OR PCI	418
AMD K5-P100/256K PCI	478
6X86-P133+/256K PCI	508
6X86-P150+/256K PCI	528
6X86-P166+/256K PCI	578
P5-75/256K PCI (Intel Zappa)	548
P5-100/256K PCI (Intel Zappa)	568
P5-120/256K PCI (Intel Zappa)	598
P5-133/256K PCI (Intel Zappa)	648
P5-75/256K PCI (Triton VX)*	518
P5-100/256K PCI (Triton VX)*	538
P5-120/256K PCI (Triton VX)*	558
P5-133/256K PCI (Triton VX)*	618
P5-150/256K PCI (Triton VX)*	678
P5-166/256K PCI (Triton VX)*	778

*** Intel Endeavor/Atlantis II M/B.......+$90/100**
*** Intel Marl/Tucson M/B ATX...........+$80/$130**

HI-TECH DREAM SYSTEMS

- **16MB RAM** (32MB/64MB: Add $Call)
- **1.2GB EIDE** (1.6GB/2.0GB: Add $30/$50)
- TEAC 1.44MB 3.5" Floppy Drive
- VLB or PCI IDE Controller with I/O
- Diamond Stealth or ATI PCI with 1MB
- Mitsumi Keyboard for Windows 95
- Enhanced Case w/Power Supply
- Free PC DOS and Mouse w/Pad
- Monitor Sold Separately (please see next page)

486DX2-80/256K VLB or PCI	$528
5X86-133/256K VLB OR PCI	548
AMD K5-P100/256K PCI	608
6X86-P133+/256K PCI	638
6X86-P150+/256K PCI	658
6X86-P166+/256K PCI	708
P5-75/256K PCI (Intel Zappa)	678
P5-100/256K PCI (Intel Zappa)	698
P5-120/256K PCI (Intel Zappa)	728
P5-133/256K PCI (Intel Zappa)	778
P5-75/256K PCI (Triton VX)*	648
P5-100/256K PCI (Triton VX)*	668
P5-120/256K PCI (Triton VX)*	688
P5-133/256K PCI (Triton VX)*	748
P5-150/256K PCI (Triton VX)*	808
P5-166/256K PCI (Triton VX)*	908

*** Intel Endeavor/Atlantis II M/B.......+$90/100**
*** Intel Marl/Tucson M/B ATX...........+$80/$130**

HI-TECH SUPER P5 SYSTEMS

- **16MB EDO RAM** (32MB/64MB: Add $Call)
- **1.2GB EIDE** (1.6GB/2.0GB: Add $30/$50)
- TEAC 1.44MB 3.5" Floppy Drive
- PCI IDE Controller with I/O
- Diamond Stealth or ATI PCI w/2MB
- Mitsumi Keyboard for Windows 95
- Medium Tower Case w/Power Supply
- Free Microsoft Windows 95
- Free Microsoft Mouse with Pad
- Monitor Sold Separately (please see next page)

P5-75/256K PCI (Intel Zappa)	$768
P5-100/256K PCI (Intel Zappa)	788
P5-120/256K PCI (Intel Zappa)	818
P5-133/256K PCI (Intel Zappa)	878
P5-75/256K PCI (Intel Endeavor)	828
P5-100/256K PCI (Intel Endeavor)	848
P5-120/256K PCI (Intel Endeavor)	868
P5-133/256K PCI (Intel Endeavor)	918
P5-150/256K PCI (Intel Endeavor)	1,008
P5-166/256K PCI (Intel Endeavor)	1,118
P5-100/256K PCI (Intel Atlantis II)	878
P5-120/256K PCI (Intel Atlantis II)	898
P5-133/256K PCI (Intel Atlantis II)	948
P5-150/256K PCI (Intel Atlantis II)	1,018
P5-166/256K PCI (Intel Atlantis II)	1,128

UPGRADES

See Next Page for All of Our Upgrade Prices

HI-TECH POWER SYSTEMS

- **16MB EDO RAM** (32MB/64MB: Add $Call)
- **2.0GB EIDE**
- TEAC 1.44MB 3.5" Floppy Drive
- PCI IDE Controller with I/O
- Matrox Mystique PCI w/2MB
- Keytronics Keyboard for Windows 95
- Medium Tower Case or w/Power Supply
- Free Microsoft Windows 95
- Free Microsoft Mouse with Pad
- Monitor Sold Separately (please see next page)

P5-100/256K PCI (Intel Marl) ATX	978
P5-120/256K PCI (Intel Marl) ATX	998
P5-133/256K PCI (Intel Marl) ATX	1,048
P5-150/256K PCI (Intel Marl) ATX	1,108
P5-166/256K PCI (Intel Marl) ATX	1,208
P5-200/256K PCI (Intel Marl) ATX	1,238
P5-100/256K PCI (Intel Tucson) ATX	1,028
P5-120/256K PCI (Intel Tucson) ATX	1,048
P5-133/256K PCI (Intel Tucson) ATX	1,098
P5-150/256K PCI (Intel Tucson) ATX	1,158
P5-166/256K PCI (Intel Tucson) ATX	1,258
P5-200/256K PCI (Intel Tucson) ATX	1,388
PP-200 PCI (Intel Venus) ATX	1,848
PP-200 PCI (Super Micro)	1,828
Dual PP-200 PCI (Super Micro)	2,828

UPGRADES

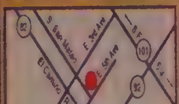
See Next Page for All of Our Upgrade Prices

SAN FRANCISCO

19th
18th
Taraval St
35
1
280
280

Phone (415) 753-6888
850 Taraval Street
San Francisco • Fax (415) 753-[illegible]

PENINSULA



Phone (415) 401-8688
111 E. 5th Avenue
San Mateo, CA [illegible] Fax (415) [illegible]

SUNNYVALE

101
SF
SJ
Hollenbeck
Fair Oaks
Old Wolfe Rd
El Camino Real
Lawrence Expwy

Phone (408) 732-8688
730 East El Camino Real
Sunnyvale, CA [illegible] Fax (408) [illegible]

MILPITAS

680
680
Centre Pointe Dr
Great Mall Parkway
Montague Expressway

Phone (408) 262-8688
[illegible] Centre Pointe Drive
Milpitas, CA 95035 Fax (408) [illegible]

SALES HOURS
Mon-Fri: 8:30am-6pm
9:30am-7pm (Sunnyvale)
Sat: 10am-4pm

SERVICE HOURS
Mon-Fri: 9am-5:30pm
Sat: 10am-3:30pm
(Milpitas & San Francisco)

HI-TECH USA
ALWAYS THE BEST

TERMS AND CONDITIONS

1. One year parts and labor warranty on systems.
2. Knowledgeable technical support engineers in service.
3. Prices and availability subject to change w/o notice.
4. Shipping, insurance and COD charges are extra and non-refundable. Prices reflect cash discounts.
5. Return shipping must be insured, prepaid and bearing an RMA# on the shipping label.
6. Defective items replaced or repaired at our discretion.
7. No responsible for typos.
8. All returns subject to 15% restocking fee and cover only Hi-Tech USA brand computers, excludes peripherals, software and notebook computers. No refunds after 30 days.
9. Superior reputation for service, quality and value.
10. Purchase orders are welcomed and subject to approval.

HI-TECH USA

ALWAYS THE BEST

(408) 262-8688 ....Milpitas
(408) 732-8688 ....Sunnyvale
(415) 401-8688 ....San Mateo
(415) 753-6888 ....San Francisco

CASE W/POWER SUPPLY

230W / 250W / 300W Power Supply	$22 / 25 / 40
Mini Tower Case w/200W Power Supply	29
Desktop AT Case w/200W Power Supply	36
Medium Tower Case w/230W Power Supply	41
Full Tower Case w/250W Power Supply	57

CONTROLLERS

IDE 2FD/2HD with 2S/1P/1G	$10
VLB IDE with I/O	12
VLB IDE I/O (2S/1P) w/16550 UART Chip	16

adaptec

1522 / 1542 CF (SCSI)	$69 / 124
1542CP / 1542CPK (SCSI)	159 / 222
2825 VLB / 2842 VLB (SCSI)	78 / 156
2940U PCI / 2940UW PCI (SCSI)	178 / 204
2940UWK PCI (SCSI)	224

DATA TECHNOLOGY CORPORATION

DTC 2280D / 2280E ISA	$14/20
DTC 2278E VLB IDE W/16550 UART Chip	24
DTC 2278D VLB IDE I/O Dual Ports	18

PROMISE TECHNOLOGY, INC.

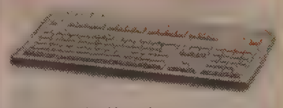
Promise DC-2300 Plus VLB IDE Fast I/O	$43
Promise DC-4030 VLB IDE Cache Controller	77
Promise DC-4030+ VLB EIDE	108
Promise DC-5030 PCI IDE 0-16MB Cache	114

HARD/FLOPPY DRIVES

Quantum™ Maxtor® Seagate MICROPOLIS CONNER WESTERN DIGITAL

HARD DRIVES	
540MB IDE / 635MB IDE	$114 / 116
850MB IDE / 1.0GB IDE	134 / 164
1.2GB IDE / 1.6GB IDE	168 / 188
2.0GB IDE	218
520MB / 1.0GB SCSI	138 / 244
2.0GB / 4.0GB SCSI	324/ 778
FLOPPY DRIVES	
Epson, SONY or NEC 1.2 / 1.44 FDD	$36 / 20
Epson/Teac Dual Floppy Drive	75 / 79
Teac 1.2 /1.44 Floppy Drive	37 / 22
IOMEGA	
Ditto Easy 800 Insider	108
Ditto Easy 800 Parallel	154
Ditto Easy 3200 Insider w/Cartridge	234
Ditto 800/3200 Cartridge	35 / 40
Jaz SCSI Drive 1.0GB Insider	372
Jaz SCSI Drive 1.0GB External	462
Jaz SCSI Drive Cartridge	104
Zip Drive 100MB External Parallel	182
Zip Drive 100MB External SCSI	184
Zip Drive 100MB Cartridge	17
ZIP DRIVES (Epson)	
100MB External Parallel	$178
100MB External SCSI	178

KEYBOARDS



101 Enhanced Keyboard for Windows 95	$12
FOCUS	
FK2001 101-Key Click	21
FK2001 for Windows '95	27
FK6200W 104-Key for Windows '95	23
FK7200W w/Trackball for Windows '95	29
FK8000 w/Calculator	32
FK9000 Programmable w/Calculator	38
Keytronics 104-Key for Windows 95	17
Lite-on SK-6000 / SK-6000T	38 / 55
Mitsumi 104-Key for Windows 95	12
Maxiswitch 101-Key Enhanced	19
Maxiswitch Nova PS/2	19
Maxiswitch Pro II 124 Key Programmable	41
Microsoft Natural Key (w/System)	60
Northgate OMNI Ultra	80

MEMORY & CPU

SIMM	
1MB / 4MB (30 Pin)	8 / 24
4MB/8MB (72-Pin)	19 / 35
16MB / 32MB (72-Pin)	80/ 154
4MB/8MB (EDO)	19 / 35
16MB / 32MB (EDO)	80 / 154
Simm Converter (30-pin to 72-pin)	8
CPU	
AMD 5X86-133	40
AMD K5-P100	78
Cyrix 486DX2-80	20
Cyrix 6X86 P-120+ / P-133+	97/ 107
Cyrix 6X86 P-150+ / P-166+	124 /168
Intel P5-75 / 100 / 120	122 / 146 / 162
Intel P5-133 / 150 /166	214 / 274 / 376
Intel P5-200	528
Intel Pentium Pro-180 / Pro-200	518 / 908

MODEMS & FAXES

Fax Modem 14,400 Internal / External	$27 / 36
Fax Modem 14,400 w/Voice Internal	28
Fax Modem 14,400 w/Voice External	38
Fax Modem 28.8 with V.34 Int.	63
Fax Modem 28.8 with V.34 Ext	88
Fax Modem 33.6 with V.34 Int / Ext	73 / 90
Fax Modem 33.6 with Voice Int	83
Fax Modem 33.6 with Voice Ext	96
PCMCIA Fax Modem 28.8 Data w/V.34	128
PCMCIA Fax Modem 33.6 Data w/V.34	134
HAYES	
Accura 14.400 Int/Ext	$77 / 92
Accura 28.8 w/V.34 Int/Ext	144 / 150
Optima 28.8 w/V.34 Int/Ext	348 / 362
PRACTICAL PERIPHERALS	
14.400 Fax Modem Int/Ext	63 / 78
28.8 w/V.34 Fax Modem Int/Ext	133 / 148
SUPRA 28.8 Fax Modem w/V.34 Int/Ext	90/132
SUPRA 33.6 Fax Modem w/Voice Int	92
US ROBOTICS	
Sportster 14,400 FM Int / Ext Si	$38 / 46
Sportster 14,400 FM Int / Ext (Classic)	86/101
Sportster 33.6 Data Winmodem Int (OEM)	88
Sportster 33.6 Data Winmodem Int (Retail)	108
Sportster 33.6 Data Fax Modem w/V.34 Int (OEM)	115
Sportster 33.6 Data Fax Modem w/V.34 Int (Retail)	135
Sportster 33.6 Data Fax Modem w/V.34 Ext (Retail)	146
Sportster 33.6 Data Fax Modem w/Voice Int (OEM)	124
Sportster 33.6 Data Fax Modem w/Voice Int (Retail)	154
Sportster 33.6 Data Fax Modem w/Voice Ext	180
Sportser PCMCIA 28.8 w/V.34	266
Sportster ISDN 128K Int	330

MONITORS*

14" Mono	$74
14" VGA Mono	85
14" SGA 1024•768 .28 NI	200
15" SVGA 1024•768 .28	250
17" SVGA 1280•1024 .28	484

CTX

14" Super VGA 1024•768 .28 NI	$222
15" Super VGA 1024•768 .28	315
17" Super VGA 1280•1024 .28	562

IIYama (IDEK)

MF-8115 15" 1280•1024 .28	$366
MF-8617E 17" 1600•1200 .26	668
MF-9017E 17" 1600•1200 .25	738
MF-8221E 21" 1600•1200 .30	1,434
MF-9021E 21" 1600•1200 .30	1,526

Impression

14" 1024•768 .28 NI	$202
15" 1280•1024 .28 NI	278
17" 1280•1024 .28 NI	492

MAG INNOVISION

1595 15" 1280•1024 .28 (New Model)	$320
1795 17" 1280•1024 .26 (New Model)	552
DX15T 15" .25 Trinitron OSD Win 95	354
DX17T 17" .25 Trinitron OSD Win 95	642
MXP17F 17" 1600•1280 .26	688

NANAO®

F2-17 .28 / F2-17EX .26	778 / 888
T2-17TS .25 / T2-17 .25	864 / 924
T2-20 .30 / F2-21 .30	1,698 / 1,714

NEC

C500 / M500 / XV 15+	$375 / 474 / 448
M700 / XV 17+ / XP 17	758 / 758 / 996
XE 21 / XP 21	1,619 / 1,874

NOKIA

449E 15" 1280•1024 .28	$428
447L 17" 1280•1024 .28	658
445Xi 21" 1600•1280 .28 No TCO	1,698

SONY

15SF II 15" 1280•1024 .25	$433
17SFII 17" 1280•1024 .25	720
20SFII 20" 1280•1024 .30	1,568

ViewSonic®

14ES 14" 1024•768 .28	$244
15ES 15" 1024•768 .28	316
15G 15" 1280•1024 .28 60MHz	348
15GS 15" 1280•1024 .28	348
15GA 15" 1280•1024 .27 w/Speakers	398
17EA 17" 1280•1024 .28 w/Speakers	578
17GS 17" 1280•1024 .28 Green	578
17GA 17" 1280•1024 .27 w/Speakers	638
GT770 17" 1280•1024 .25	648
PT770 17" 1600•1280 .25	708
17PS 17" 1600•1280 .25 Green	676
20G 20" 1600•1280 .28	1,058
GT800 20" 1600•1280 .30	1,280
G810 21" 1600•1280 .25	1,394
P 810 21" 1600•1280 .25	1,394
PT 810 21" 1600•1280 .30	1,574
P815 21" 1800•1440 .25	1,594

*** Monitor Viewable size may be smaller than advertised size**

MOUSE

3-Button Mouse Microsoft Compatible	$5

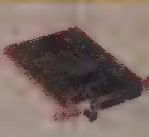
LOGITECH

First Mouse (Serial-2 Button)	12
Mouseman Serial (OEM)	20
Mouseman Bus (Retail)	62
Trackman	68

Microsoft

Microsoft Mouse Serial (w/System)	$24

NETWORKS



16 BIT Ethernet Card ISA (Combo)	$18
16 BIT Ethernet Card PCI (Combo)	28

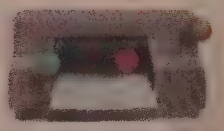
3Com

3C509 ELINK III TP	$56
3C509 ELINK III Combo	81
3C900 PCI TP (New)	83
3C900 PCI Combo (New)	110
3C905 TX PCI 100 Base-T (New)	110
3C589 PCMCIA TP	138
3C589 PCMCIA Combo	184

Hubs and Repeaters

5-Port Ethernet Hub	$46
9-Port Ethernet Hub	57
16-Port Ethernet Hub	116

PRINTERS



HEWLETT PACKARD

HP 400	$208
HP 680C	308
HP 820C	398
HP 855CSE	498
HP 5L	488
HP 5P	818

Fujitsu

DL 1250 (24-pin)	$148

PANASONIC

2023 (24-Pin)	$178
3123 (24-Pin)	248

TAPE BACKUPS

Conner 800MB Internal w/Tape	$110
Conner 8.0GB SCSI w/Tape	348

COLORADO MEMORY SYSTEMS

DJ-35 350MB Internal	57
T-1000 800MB Internal w/tape	112
T-1000E 800MB External w/tape	158
T-4000T 4.0GB Int w/tape	348
DJ-50 1.4GB Internal	154
Tape for 800MB	30

SOFTWARE

Microsoft Windows 95 Full Copy CD Version (w/system)	$94
Microsoft DOS 6.x (with System)	38
Microsoft Office Professional OEM CD Version (w/System)	188
Microsoft Windows 3.x (with System)	58
Microsoft Windows for Workgroup (with System)	64
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- 32-Bit PCI Bus
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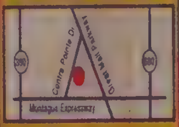

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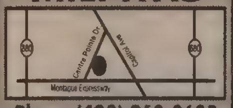

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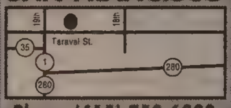

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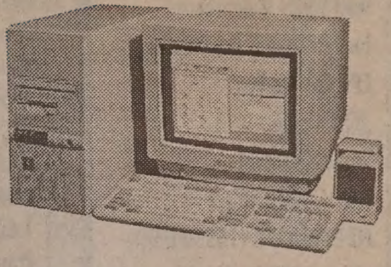

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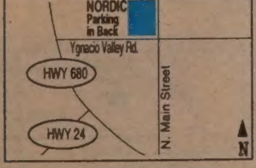

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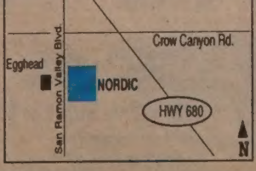

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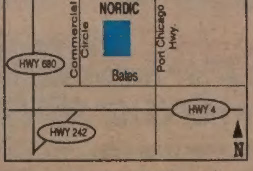

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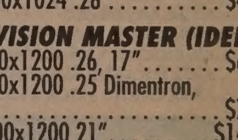

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